

**Price list****(2012-02-01)**

The prices are shown in USD, exclusive VAT, EXW Saint-Petersburg Russia (Incoterms® 2010)

Directory

Functional designation		Chapter		
		Autonomous devices	"CRAB" modular system	"PROFLEX" modular system
	Multistandard broadcast master control switchers, A/B SDI and audio switchers	Page 3, 4, 15		Page 24
	Multistandard video-audio processors (<i>broadcast 6x1 switchers/mixers with logo-insertion and scrolling text capabilities</i>)	Page 5, 6		
	MPEG4 (H.264/AVC) encoders, decoders, transcoders	Page 7		
	Meteo and temperature sensors	Page 7		
	GPS-driven time sources, LTC/VITC generators and inserters	Page 8		
	Chromakey	Page 8		
	3G/HD/SD synchrogenerators with video/audio test signals capability	Page 8		Page 25
	Synch generators			Page 23
	Autonomous devices in miniature cases: video cable equalizer	Page 8	Page 18	Page 24
10	Broadcast "smart" analog video/audio changeovers	Page 9		
11	Multistandard decoders /encoders /transcoders /ADC /DAC /synchronizers /noise reducers			Page 21
12	MPEG4 (H.264/AVC) transcoders			Page 21
13	Analog to digital and digital to analog converters - ADC, DAC (<i>YUV→SDI and SDI→YUV</i>)			Page 22
14	HD/SD SDI, SECAM synchronizers. Noise reducers			Page 22
15	Aspect ratio HD/SD SDI crossconverters			Page 22
16	Routers: analog and SDI/DVB-ASI video, analog and AES/EBU audio. Consoles and software packages.	Page 10...16		
17	Analog stereo audio level analyser-logger with monitoring facility	Page 16		
18	Relay bypass modules and switchers	Page 16	Page 18	
19	Interface converters and GPI adapters. Patch-panels and cable fittings	Page 17		Page 42
20	Analog video distribution amplifiers, cable equalizers, video and audio changeovers		Page 18	Page 23
21	3G/SDI/ASI/HDSDI/Telecom amplifiers			Page 23
22	Changeovers: SD/HD SDI/ASI, video, analog/AES/EBU audio		Page 19	Page 24, 26
23	Multistandard logo generators, inserters, titlers			Page 25
24	Audio ADC, DAC, delay lines			Page 25
25	AES/EBU audio distribution amplifiers			Page 25
26	Audio level bargraph OSD			Page 26
27	VITS generators and inserters			Page 25
28	HD/SD SDI audio embedders			Page 26
29	HD/SD SDI audio deembedders			Page 27
30	SDH (STM1) compliant DVB-ASI transport stream optimising multiplexer			Page 28
31	Optical interfaces (<i>video/audio/data transmitters, receivers, transceivers</i>):			Page 29...44
	3G/HD/SD SDI, DVB-ASI, Telecom, PAL/SECAM, analog/AES audio, RS-232/RS-422 (unidirectional or bidirectional) data optical single channel transmitters			Page 29...30

	Functional designation	Chapter		
		Autonomous devices	"CRAB" modular system	"PROFLEX" modular system
	3G/HD/SD SDI, DVB-ASI, Telecom, PAL/SECAM, analog/AES audio, RS-232/RS-422 (unidirectional or bidirectional) data optical single channel receivers			Page 31...35
	electrical multiplexing (TDM) SDI/DVB-ASI multichannel optical transmitters and receivers			Page 36
	FastETHERNET, E1 optical transceivers			Page 36...37
	• ETHERNET optical transceivers/switches			Page 37...38
	Optical transponders - regenerators and wavelength converters			Page 39
	Optical changeovers			Page 39
	WDM, CWDM optical multiplexers/demultiplexers			Page 40
	Optical splitters and summators			Page 40
	• LC-type optical attenuators			Page 40
	Cable kits for optical transmitters and receivers			Page 38
32	PROFLEX™ racks		Page 20	Page 42
33	PROFLEX™ built-in CPU modules			Page 42
34	Optical reception/transmission mobile rigs			Page 43, 44
35	1U XLR patch-panels	Please, refer to Anex#1		

Autonomous devices

#	Description	Designation code	Price
PDMX-1016TE series 10-bits digital multistandard broadcast master control switchers			
Up to sixteen video (SDI, YUV, PAL/SECAM/YC) and stereo audio inputs. SDI, PAL/SECAM video, stereo or mono audio outputs. Five slots to fit any of the three types of video input modules. Two DSK modules (SDI and/or YUV, in any combination). SDI deembedding to an audio output or to use as an audio input. Audio embedding into an output SDI program. Two independent layers with preview (logo and texts). Each layer may have up to two graphic logos and up to four texts. Texts may be automatically updated from such sources as PTC-095 (ambient temperature), PMM-4095 (meteo info), PTT-4096 (GPS-driven time/date) over RS-485 databus. Four types of video transitions: CUT, MIX, FADE TO BLACK, WIPE with smoothed edge. AUX auxiliary line, built-in jingle storage, two OVER audio inputs. A built-in PAL black burst generator, up to three VTR controllable over RS-422/RS-232. Cable and patch cord panel kit for audio inputs.			
1.	Master control main unit (<i>without front-end and DSK modules</i>)	PDMX-1016TE	10500,0
•	Front-end modules (up to 5 in any combination) with the frame synchronizer on each input: <ul style="list-style-type: none"> ◆ SDI (4 inputs) with synchronizer on each input and audio deembedder (DB-15=>XLR cable kit), for PDMX-1016TE only ◆ SDI (4 inputs) with synchronizer on each input ◆ YUV/PAL/SECAM/YC with synchronizer on each input (user-configurable as either of): <ul style="list-style-type: none"> • YUV - 2 inputs; PAL/SECAM - 4 inputs; • YUV - 1 input and PAL/SECAM - 3 inputs; • YC - 2 inputs and PAL/SECAM - 2 inputs 	PMSD-1182 PMSD-1181 PMAD-1160	1850,0 1152,0 1152,0
•	Up to two DSK modules (in any combination): <ul style="list-style-type: none"> ◆ SDI DSK module with H-synchronizer ◆ YUV DSK module with H-synchronizer 	MS-394 MS-393	640,0 400,0
2.	hardware upgrade kits for older switcher versions (to provide SDI audio deembedding) (replaces PMSD-1181 rear panel): ◆ 4-channel SDI deembedder [<i>with DB15=>XLR cable (8 pcs.)</i>]	MBE-1208	1300,0
3.	RS-232=>RS-485 interface converter	PIC-094MX	120,0
PDMX-2006 series multistandard digital 6-input VIDEO/AUDIO switchers			
Up to six video (up to three SDI, PAL/SECAM, YUV, YC) and stereo audio inputs. Optional SDI DSK input. SDI, PAL/SECAM, YC, YUV, stereo/mono audio program outputs. SDI audio embedding and deembedding, SDI embedded as an audio source. Optional noise reduction module. PAL and audio PREVIEW outputs. Transitions: X-Mix, V-Mix with a presettable rate, CUT, VBI data restoration mode. Frame freeze mode. Dry-reed relay bypass for one video and one audio channel. The device consists of a system module and a control console. 2-channel audio level meter, master volume and headphone jack on the control console. Video parameters controllable from system module's frontal panel. Remote controls from a PC. Built-in logo (static and animated), scrolling text and GPS-driven time/date generator. 4 TV frames storage. Nonvolatile memory for operational settings. Automatic external data update via RS-485 (PTT-4096 GPS time source, PTC-095 ambient temperature, PMM-4095 meteo information source). Up to two separate logos (graphic and text) and a scrolling text simultaneously.			
1.	video-audio switcher <u>Video inputs (user-configurable, either of):</u> <ul style="list-style-type: none"> • six composite PAL/SECAM, or three composite PAL/SECAM and three SDI, or two component YUV, two composite PAL/SECAM and one SDI, or one component YUV, three composite PAL/SECAM and two SDI, or two S-VHS, three composite PAL/SECAM and one SDI, or two S-VHS, two composite PAL/SECAM and two SDI <u>DSK inputs (optional):</u> SDI Fill and Key <u>Video outputs (user-configurable, either of):</u> <ul style="list-style-type: none"> • three PAL/SECAM and two SDI outputs or one YPrPb and two SDI outputs or one YC, one PAL and two SDI embedded outputs <ul style="list-style-type: none"> • one PAL Preview output. <u>Audio inputs:</u> <ul style="list-style-type: none"> • six balanced stereo inputs <u>Audio outputs:</u> <ul style="list-style-type: none"> • program (PRG) balanced stereo output • preset (PST) balanced stereo output • mono output 	PDMX-2006	3600,0

AUTONOMOUS DEVICES

#	Description	Designation code	Price
Additionally for PDMX-2006 series			
	• audio cross panel (DB-44, DB-15 => XLR (16 connectors) with 1m cable)	PPM-16M	186,0
	• software package for remote control from MS-Windows		200,0
	• TALLY adapter	PIC-4051T	210,0
	• GPI control console with RS-232 interface (14 GPI commands, clamp and RJ-45connectors)	PGPI-4054-14	350,0
	• GPI control console with RS-232 interface (8 GPI commands, clamp and RJ-45connectors)	PGPI-4054-8	250,0
	• RS-485/RS-232 remote control console	PFRP-3026M	380,0
	• RS-485/RS-232,GPI remote control console	PPRP-4055	380,0
	• RS-485/RS-232,GPI remote control console for a main and a stand-by video-audio processors	PPRP-4056	380,0
	• indication panel (up to two video-audio processors supported)	PPIV-4010	150,0
	• adapter (DUB15pin to clamp connectors)	PBS-15	22,0
	• adapter (DUB44pin to clamp connectors)	PBS-44	25,0
	• SDI DSK module with frame synchroniser (option)	K	640,0
	• noise reduction module (option)	NR	600,0
	• RJ45=>DB9 adapter with RJ45=>RJ45 cable (for RS-232 interface)		4,0
	• Y-connector RJ45=>2 RJ45 with RJ45<=>RJ45 cable (for RS-485 network)		3,0
PDMX-2007 series SDI video-audio switcher			
<p>Up to six SDI video and stereo audio inputs. Optional SDI DSK input. SDI, PAL/SECAM, YC, YUV, stereo/mono audio program outputs. SDI audio embedding and deembedding, SDIembedded as an audio source. Optional noise reduction module. PAL and audio PREVIEW outputs. Transitions: X-Mix, V-Mix with a presettable rate, CUT. VBI data restoration mode. Frame freeze mode. Dry-reed relay bypass for one video and one audio channel. The device consists of a system module and a control console. 2-channel audio level meter, master volume and headphone jack on the control console. Video parameters controllable from system module's frontal panel. Remote controls from a PC. Built-in logo (static and animated), scrolling text and GPS-driven time/date generator. 4 TV frames storage. Nonvolatile memory for operational settings. Automatic external data update via RS-485 (PTT-4096 GPS time source, PTC-095 ambient temperature, PMM-4095 meteo information source). Up to two separate logos (graphic and text) and a scrolling text simultaneously. Audio level meter bargraph OSD on the PAL PREVIEW output.</p>			
1.	<p>video-audio switcher</p> <p><u>Video inputs:</u></p> <ul style="list-style-type: none"> • six SDI inputs <p><u>DSK inputs (optional):</u> SDI Fill and Key</p> <p><u>Video outputs (user-configurable, either of):</u></p> <ul style="list-style-type: none"> • three PAL/SECAM and two SDI outputs or one YPrPb and two SDI outputs or one YC, one PAL and two SDIembedded outputs • one PAL Preview output. <p><u>Audio inputs:</u></p> <ul style="list-style-type: none"> • six balanced stereo inputs <p><u>Audio outputs:</u></p> <ul style="list-style-type: none"> • program (PRG) balanced stereo output • preset (PST) balanced stereo output • mono output 	PDMX-2007	3530,0
Additionally for PDMX-2007 series			
	• audio cross panel (DB-44, DB-15 => XLR (16 connectors) with 1m cable)	PPM-16M	186,0
	• software package for remote control from MS-Windows		200,0
	• TALLY adapter	PIC-4051T	210,0
	• GPI control console with RS-232 interface (14 GPI commands, clamp and RJ-45connectors)	PFRP-3026M	380,0
	• RS-485/RS-232,GPI remote control console	PPRP-4055	380,0
	• RS-485/RS-232,GPI remote control console for a main and a stand-by video-audio processors	PPRP-4056	380,0
	• indication panel (up to two video-audio processors supported)	PPIV-4010	150,0
	• adapter (DUB15pin to clamp connectors)	PBS-15	22,0
	• adapter (DUB44pin to clamp connectors)	PBS-44	25,0
	• SDI DSK module with frame synchroniser (option)	K	640,0
	• RJ45=>DB9 adapter with RJ45=>RJ45 cable (for RS-232 interface)		4,0
	• Y-connector RJ45=>2 RJ45 with RJ45<=>RJ45 cable (for RS-485 network)		3,0

#	Description	Designation code	Price
PVDP-1006 series multistandard video-audio processors (broadcast 6x1 switchers/mixers)			
10-bits video ADC/DAC. Up to six video (up to three SDI, PAL/SECAM, YUV, YC) and stereo audio inputs. Optional SDI DSK input. SDI, PAL/SECAM, YC, YUV, stereo/mono audio program outputs. SDI audio embedding and deembedding, SDI embedded as an audio source. Optional noise reduction module. PAL and audio PREVIEW outputs. Glitch-free transitions: X-Mix, V-Mix with a presettable rate, CUT. VBI data (from REF input) restoration mode. Frame freeze mode. Dry-reed relay bypass for one video (composite) and one audio channel. The device consists of a system module and a control console. 2-channel audio level meter, master volume and headphone jack on the control console. Video and audio parameters controllable from system module's frontal panel. Remote controls from a PC. Built-in logo (static and animated), scrolling text and GPS-driven time/date generator. 4 TV frames storage. Nonvolatile memory for operational settings. Automatic external data update via RS-485 (PTT-4096 GPS time source, PTC-095 ambient temperature, PMM-4095 meteo information source). Up to two separate logos (graphic and text) and a scrolling text simultaneously. Built-in VITS generator. Three-layer mixing: graphic logos, text logos and scrolling texts.			
1.	video-audio processor <u>Video inputs (user-configurable):</u> • six composite PAL/SECAM inputs, or three composite PAL/SECAM and three SDI inputs, or two component YUV, two composite PAL/SECAM and one SDI, or one component YUV, three composite PAL/SECAM and two SDI, or two S-VHS, three composite PAL/SECAM and one SDI, or two S-VHS, two composite PAL/SECAM and two SDI inputs <u>DSK inputs (optional):</u> SDI Fill and Key <u>Video outputs (user-configurable):</u> • three composite PAL/SECAM and two SDI outputs, or one component YUV and two SDI outputs, or one S-VHS, one composite PAL and two SDI outputs; • PAL Preview output; SDI embedded audio not supported. <u>Audio inputs:</u> • six balanced stereo inputs; SDI embedded audio as an input source. <u>Audio outputs:</u> • balanced stereo output, • Preview balanced stereo output, • mono output, Audio embedding into the output SDI.	PVDP-1006	1950,0
		PVDP-1006AA	2460,0
Additionally for PVDP-1006 series			
	• logo generator (option, with SW package)	L	450,0
	• audio cross panel (DB-44, DB-15 => XLR (16 connectors) with 1m cable)	PPM-16M	186,0
	• software package for remote control from MS-Windows		200,0
	• TALLY adapter	PIC-4051T	210,0
	• GPI control console with RS-232 interface (14 GPI commands, clamp and RJ-45 connectors)	PGPI-4054-14	350,0
	• GPI control console with RS-232 interface (8 GPI commands, clamp and RJ-45 connectors)	PGPI-4054-8	250,0
	• RS-485/RS-232 remote control console	PFRP-3026M	380,0
	• RS-485/RS-232,GPI remote control console	PPRP-4055	380,0
	• RS-485/RS-232,GPI remote control console for a main and a stand-by video-audio processors	PPRP-4056	380,0
	• indication panel (up to two devices)	PPIV-4010	150,0
	• adapter (DUB15pin to clamp connectors)	PBS-15	22,0
	• adapter (DUB44pin to clamp connectors)	PBS-44	25,0
	• SDI DSK module with frame synchroniser (option)	K	640,0
	• noise reduction module (option)	NR	600,0
	• RJ45=>DB9 adapter with RJ45=>RJ45 cable (for RS-232 interface)		4,0
	• Y-connector RJ45=>2 RJ45 with RJ45<=>RJ45 cable (for RS-485 network)		3,0

AUTONOMOUS DEVICES

#	Description	Designation code	Price
PVDP-1007 series SDI video-audio processors (broadcast 6x1 switchers/mixers)			
Up to six SDI video and stereo audio inputs. Optional SDI DSK input. SDI, PAL/SECAM, S-VHS, YUV, stereo/mono audio program outputs. SDI audio embedding and deembedding, SDI embedded as an audio source. Optional noise reduction module. PAL and audio PREVIEW outputs. Glitch-free transitions: X-Mix, V-Mix with a presettable rate, CUT. VBI data (from REF input) restoration mode. Frame freeze mode. Dry-reed relay bypass for one video (composite) and one audio channel. The device consists of a system module and a control console. 2-channel audio level meter, master volume and headphone jack on the control console. Video and audio parameters controllable from system module's frontal panel. Remote controls from a PC. Built-in logo (static and animated), scrolling text and GPS-driven time/date generator. 4 TV frames storage. Nonvolatile memory for operational settings. Automatic external data update via RS-485 (PTT-4096 GPS time source, PTC-095 ambient temperature, PMM-4095 meteo information source). Up to two separate logos (graphic and text) and a scrolling text simultaneously. Built-in VITS generator. Three-layer mixing: graphic logos, text logos and scrolling texts.			
1.	<u>Audio inputs:</u> <ul style="list-style-type: none"> • six balanced stereo inputs; SDI embedded audio as an input source. <u>Audio outputs:</u> <ul style="list-style-type: none"> • balanced stereo output, • Preview balanced stereo output, • mono output, audio embedding into the output SDI. 	PVDP-1007AA	2450,0
Additionally for PVDP-1007 series			
	• logo generator (<i>option, with SW package</i>)	L	450,0
	• audio cross panel (DB-44, DB-15 => XLR (16 connectors) with 1m cable)	PPM-16M	186,0
	• software package for remote control from MS-Windows		200,0
	• TALLY adapter	PIC-4051T	210,0
	• GPI control console with RS-232 interface (<i>14 GPI commands, clamp and RJ-45 connectors</i>)	PGPI-4054-14	350,0
	• GPI control console with RS-232 interface (<i>8 GPI commands, clamp and RJ-45 connectors</i>)	PGPI-4054-8	250,0
	• RS-485/RS-232 remote control console	PFRP-3026M	380,0
	• RS-485/RS-232, GPI remote control console	PPRP-4055	380,0
	• RS-485/RS-232, GPI remote control console for a main and a stand-by video-audio processors	PPRP-4056	380,0
	• indication panel (<i>up to two devices</i>)	PPIV-4010	150,0
	• adapter (DUB15pin to clamp connectors)	PBS-15	22,0
	• adapter (DUB44pin to clamp connectors)	PBS-44	25,0
	• SDI DSK module with frame synchroniser (<i>option</i>)	K	640,0
	• RJ45=>DB9 adapter with RJ45=>RJ45 cable (<i>for RS-232 interface</i>)		4,0
	• Y-connector RJ45=>2 RJ45 with RJ45<=>RJ45 cable (<i>for RS-485 network</i>)		3,0

#	Description	Designation code	Price
MPEG4 (H.264/AVC) encoders, decoders, transcoders			
Decoders			
Decoders accept multiprogram MPEG4 (H264/AVC) compliant video stream and MPEG1 Layer II compliant audio. ASI, DVB S1/S2 or Ethernet 100BaseT inputs. HD/SD SDI, PAL/SECAM and HDMI video outputs, analog and AES audio outputs. Two Common Interface slots for descramblers. Most professional CAM (conditional access modules) supported. Transport stream filtering, multiplexing of two streams accepted via ASI, DVB S1/S2 inputs, a new multiplexed stream is available at the ASI or Ethernet outputs. Optical and electrical ASI inputs/outputs, electrical and optical HD/SD SDI outputs. HDMI video and audio outputs with optional audio level metering bargraph OSD. Optional frame synchronizer (requires the REF video, TLS or similar) with audio delay compensation. Up to four stereo channels supported with user-configurable audio gain presets. Supported video standards: 625/50i, 1080/50i, 720/50p. TELETEXT insertion supported. ProMPEG FEC COP3 transport stream error correction over Ethernet. Optional stand-by PSU.			
1.	professional MPEG4 (H.264/AVC) decoder <i>(ASI and IP inputs; HD/SD SDI, PAL/SECAM, HDMI, ASI, IP video outputs; one audio stereo pair (user-configurable as either two analog stereo or two AES/EBU and one analog) output)</i>	PMPD-3610	3900,0
2.	professional MPEG4 (H.264/AVC) decoder <i>(ASI and IP inputs; HD/SD SDI, PAL/SECAM, HDMI, ASI, IP video outputs; two audio stereo pairs (user-configurable as either four analog or up to four AES/EBU) output)</i>	PMPD-3610-1	4500,0
Optional expansion modules (installation only available during production at the factory)			
	• ASI optical input and output <i>(SFP module, -25dBm sensitivity, 0dBm optical output power, CWDM laser – “CW” model index)</i>	L (LCW##)	550,0 (1150,0)
	• HD/SD SDI optical output <i>(SFP module, 0dBm optical output power, CWDM laser – “CW” model index)</i>	D (DCW##)	600,0 (1200,0)
	• DVB-S2 input	S2	390,0
	• Frame synchronizer	K	600,0
	• ProMPEG FEC COP3 transport stream error correction via Ethernet <i>(software capability)</i>	F	500,0
	• Stand-by PSU	MX88	250,0
Meteo and temperature sensors			
PTC-095 temperature sensor with RS-485 interface. Temperature range: -55°C~+85°C. Up to 10 meters of interface cable. PMM-4095 meteostation: atmospheric pressure sensor, external (up to 10 meters cable) temperature and humidity sensors. RS-485, RS-232 and (optional) Ethernet interfaces. Display on the frontal panel. Optional user-controlled data correction and IBM PC connectivity. PTC-095 temperature sensor and PMM-4095 meteostation easily interconnect with the PDMX-2006 and PDMX-2007 video-audio mixers, with video-audio processors PVDP-1006 and PVDP-1007, with PDMX-1016TE master control and all PROFLEX family logogenerators. Maximum cable run between the data source and consumer is up to 200 meters.			
1.	temterature sensor, RS-485 interface <i>(10 meter cable)</i>	PTC-095	260,0
2.	meteostation <i>(RS-232/RS-485 interfaces)</i>	PMM-4095	430,0
3.	meteostation <i>(RS-232/RS-485/Ethernet interfaces)</i>	PMM-4095E	460,0
4.	1U rack mounting ramp <i>(for PMM-4095)</i>	PM-021	20,0

AUTONOMOUS DEVICES

#	Description	Designation code	Price
GPS-driven time sources, LTC/VITC generators			
GPS signal reception, processing and distribution of time/date information as: LTC (four XLR connectors), VITC/PAL-blackburst (two BNC outputs), VITC/SDI-blackfield (DVITC and LTC/VITC as an auxiliary data, two BNC outputs). RS485/Ethernet connectivity supported. Stratum 1 NTP server. Presettable timezone. User-accessible GPS status information. Time/data and temperature (if PTC-095 is fitted in) information display on the frontal panel. Battery-powered timekeeping. Up to $1 \cdot 10^{-6}$ accuracy of the free-run timekeeping. Three operation modes: GPS-driven, video REF (PAL/SECAM) driven, free-run.			
1.	GPS-driven time source and indication panel with LTC/VITC /Ethernet/ RS-232/RS-485 interfaces (<i>magnetic antenna on a 10 meter cable</i>)	PTT-4096	1300,0
2.	GPS antenna kit (<i>marine type with 15 meters cable</i>)		600,0
3.	Antenna amplifier (<i>up to 70 meters of coaxial cable</i>)	UM	450,0
Timecode generators LTC, RS-422			
Free-run or external LTC/REF-video driven mode. Up to $1 \cdot 10^{-6}$ accuracy in free-run mode. Two balanced, four BNC LTC outputs. Sony-compatible RS-422 timecode output format, eight outputs. NMEA-compatible RS-232 input for GPS receiver. Built-in NTP server. Data display on the frontal panel.			
1.	timecode generator (<i>LTC, RS422</i>)	PRPC-4099	898,0
Timecode inserters			
Timecode inserters provide an OSD overlay for PAL/SECAM video signal. Free-run or extrnally-driven modes: LTC or VITC in a reference video signal. Remote programmable (via Ethernet) OSD position, symbol colors.			
1.	timecode inserter	PITC-4100	490,0
Chromakey			
CHROMAkey and LUMAkey modes rear-projection unit. Mix and additive keying modes. Background color: any. Automated scene composition: cursor/pointer driven background color selection, silhouette signal management. Local (touch-screen) and remote (control panel and PC) control options. Auxiliary α -channel input expands unit's compositional capabilities.			
1.	Chromakey (<i>SDI inputs, outputs and α-channel</i>)	PDCC-1110	4200,0
SD/HD/3G synchrogenerators with video/audio test signals capability			
Referenced and free-run (up to $1 \cdot 10^{-10}$ accuracy) modes. Antenna input for the GPS signal as an external reference. External video as a reference. The BB PAL/SECAM and HD TRI-LEVEL simultaneous generation capability. Analog (PAL/SECAM) and digital (SD/HD SDI) video test signals generation capability, electrical and optical outputs. Analog and digital (AES) audio test signals generation capability with optional SD/HD SDI embedding. Generation of the audio synchrosignals genlocked to video. WorldClock sync signal generation for audio. Optional LTC output. GPS-genlocked 10 MHz and one-second pulse outputs. Lip-sync test signals for subjective evaluation and measurements for analog, digital, SD/HD and mixed environments. Optional stand-by PSU.			
1.	SD/HD reference synchrogenerators with video/audio test signals capability	PSG-2070	5400,0
	• Stand-by PSU	MX88	250,0
Autonomous devices in miniature cases			
50,5x128x160mm miniature case, fits into 3U rack (up to eight pieces) 180mm deep. Fully autonomous operation possible.			
1.	Video cable equalizer (<i>six-band, up to 2km</i>) /1 input; 4 outputs; overvoltage protection on input and outputs; high CMRR; relay bypass; 220V AC power /	PCV-5001-1	270,0
2.	Video cable equalizer (<i>six-band, up to 2km</i>) /1 input; 4 outputs; overvoltage protection on input and outputs; high CMRR; relay bypass; 36~72V DC power/	PCV-5001-2	290,0
3.	3U rack to host up to eight miniature cases	PC3U	170,0

#	Description	Designation code	Price
Broadcast "smart" analog video/audio changeover			
<p>PRVA-4063/E protects a complete TV channel providing composite video and analog audio support. The following set of parameters is analysed:</p> <ul style="list-style-type: none"> • VIDEO (sources may be up to 15 TV frames out of phase to each other): <ul style="list-style-type: none"> ○ a loss or low level (150mV or less) of the synchro pulses on one input while the other has nominal signal ○ a "frozen"/"pixellated" video on one input while the other has an undistorted video ○ a 2-6dB video level drop on one input relative to the other, the level difference is presettable in 0.5dB increments • AUDIO (sources may be up to 600ms apart): <ul style="list-style-type: none"> ○ a 2-12dB audio level drop on one input relative to the other (the level difference is presettable in 1dB increments) ○ an audio level drops below a preset "silence threshold" (is presettable in 0 to minus 60dB range with 1dB increments) on one input while the other has an above-the-threshold audio level <p>The user-presettable forward delay:</p> <ul style="list-style-type: none"> • for video signal faults the delay is 0-99.9sec with 0.1sec increments • for audio signal faults the delay is 0.5-99.5sec with 0.5sec increments <p>The user-presettable recovery delay in 1-999sec range with 1sec increments. The monitor outputs provide video and audio signals from inputs currently selected as back-up. Can be controlled locally from a front panel, remotely from a separate PRR-4063P console, via Ethernet from a PC (PRVA-4063E only), by GPI commands. High CMRR and overvoltage protection on video input, balanced XLR audio inputs/outputs with +15dB headroom.</p> <p>Optional redundant PSU with separate mains sockets.</p>			
1.	broadcast "smart" analog video/audio changeover	PRVA-4063E	1270,0
2.	changeover remote control panel (phantom power supply)	PRR-4063P	190,0
3.	Software package for changeover remote controls		200,0
4.	Redundant PSU		150,0
Broadcast "smart" SDI video/audio changeover			
<p>PRSD-4068 protects a complete channel providing SD SDIembedded video, AES/EBU and analog audio support. The following set of parameters is analysed:</p> <ul style="list-style-type: none"> • VIDEO (sources may be up to 15 TV frames out of phase to each other): <ul style="list-style-type: none"> ○ SDI loss condition ○ two or more EDH errors within a presettable time interval ○ a "frozen"/"pixellated" SDI-video on one input while the other has an undistorted video ○ a 2-6dB video level drop on one input relative to the other, the level difference is presettable in 0.5dB increments. A switchback occurs when the level difference falls below 1dB. • AUDIO (up to 600ms of audio delay skew): <ul style="list-style-type: none"> ○ a loss of an external AES/EBU signal or a preselectable SDIembedded group ○ a 2-12dB audio level drop on one input relative to the other (the level difference is presettable in 1dB increments) <p>User-presettable forward delay:</p> <ul style="list-style-type: none"> • for any video and digital audio signal fault the delay is 0-99.9sec with 0.1sec increments • for analog audio signal faults the delay is 0.5-99.5sec with 0.5sec increments <p>User-presettable recovery delay in 1-999sec range with 1sec increments.</p> <p>A monitor output provides PAL video with an OSD bargraph audio level indicators overlay. PRSD-4068 can be controlled locally from it's front panel, remotely from a separate PRR-4068P console, via Ethernet from a PC, by GPI commands. Balanced audio inputs/outputs (analog or AES/EBU). XLR audio connectors.</p> <p>Optional redundant PSU with separate mains sockets.</p>			
1.	broadcast "smart" SDI video/audio changeover	PRSD-4068	1750,0
2.	broadcast "smart" SDI video/audio changeover with analog audio inputs	PRSD-4068A	1950,0
3.	broadcast "smart" SDI video/audio changeover with AES/EBU audio inputs	PRSD-4068E	1950,0
4.	changeover remote control panel	PRR-4068P	280,0
5.	software package for changeover remote controls and management		200,0
6.	optional hot-standby power supply unit		150,0
Broadcast "smart" audiochangeover			
<p>PRAA-4065M/ME broadcast audio changeover protects an analog balanced stereo audio transmission lines with up to 600ms audio delay skew. The following set of parameters are analysed:</p> <ul style="list-style-type: none"> • a 2-12dB audio level drop on one input relative to the other (the level difference is presettable in 1dB increments). A switchback occurs when the level difference falls below 2dB. • an audio level drops below a preset "silence threshold" on one input while the other has an above-the-threshold audio level. The "silence threshold" is presettable in 0 to minus 60dB range with 1dB increments. <p>The forward delay (an interval between a moment a fault was detected on primary input and an actual change over to the secondary input) is user-presettable:</p> <ul style="list-style-type: none"> • for video signal faults the delay is 0-99.9sec with 0.1sec increments • for audio signal faults the delay is 0.5-99.5sec with 0.5sec increments <p>The recovery delay is user-presettable in 1-999sec range with 1sec increments. An immediate recovery switching to the primary input takes place if a fault occurs on the secondary input. The monitor output provides an audio signal from an input currently selected as a back-up. PRAA-4065 can be controlled locally from it's front panel, remotely from a separate PRR-4065P console, via Ethernet from a PC (PRAA-4065ME only), by GPI commands. XLR audio connectors. Audio headroom +27dB.</p>			
1.	broadcast "smart" audiochangeover	PRAA-4065ME	990,0
2.	changeover remote control panel (phantom power supply)	PRR-4065P	180,0
3.	software package for changeover remote controls and management		200,0

AUTONOMOUS DEVICES

Routers: analog and SDI/DVB-ASI video, analog and AES/EBU audio							
User-selectable AC or DC coupled balanced inputs. Bandwidth (guaranteed) for video signals – better than 70MHz, audio signals – better than 1,5MHz. Glitch-free switching of channels. Two program outputs (x1 series only). Dry-reed relay bypass: first input to first output (x1 series only). Capability of being controlled remotely from a network. “Star” (using a hub) or “Bus” network topology. GPI commands to control one particular output option.							
No. of inputs	No. of outputs	Signal types		Designation code	Price	Rack height (U=44,5mm)	Notes
		Video	Audio				
x1 series routers							
4	1	V		PVS-0401V	360,0	1U	
			AA	PSS-0401AA	400,0	1U	
		V	AA	PVSS-0401VAA	580,0	1U	
		YUV (RGB)		PVS-0401CV	720,0	2U	
		YUV (RGB)	AA	PVSS-0401CVAA	980,0	2U	
		YC		PVS-0401SV	560,0	1U	
		YC	AA	PVSS-0401SVAA	840,0	2U	
		SDI/ASI		PVS-0401DSI	720,0	1U	
		SDI/ASI	AA	PVSS-0401DSIAA	930,0	1U	
8	1	V		PVS-0801V	480,0	1U	
			AA	PSS-0801AA	500,0	1U	
		V	AA	PVSS-0801VAA	950,0	1U	
		YUV (RGB)		PVS-0801CV	950,0	2U	
		YUV (RGB)	AA	PVSS-0801CVAA	1400,0	2U	
		YC		PVS-0801SV	680,0	1U	
		YC	AA	PVSS-0801SVAA	930,0	2U	
		SDI/ASI		PVS-0801DSI	1000,0	1U	
		SDI/ASI	AA	PVSS-0801DSIAA	1300,0	1U	
16	1	V		PVS-1601V	800,0	1U	
			AA	PSS-1601AA	820,0	1U	
		V	AA	PVSS-1601VAA	1320,0	1U	
		YUV (RGB)		PVS-1601CV	1800,0	2U	
		YUV (RGB)	AA	PVSS-1601CVAA	2320,0	2U	
		YC		PVS-1601SV	1300,0	1U	
		YC	AA	PVSS-1601SVAA	1820,0	2U	
		SDI/ASI		PVS-1601DSI	1400,0	1U	
		SDI/ASI	AA	PVSS-1601DSIAA	1900,0	1U	
32	1	V		PVS-3201V	1300,0	1U	
			A	PSS-3201A	970,0	1U	
			AA	PSS-3201AA	1640,0	1U	
		SDI/ASI		PVS-3201DSI	2200,0	1U	
64	1	V		PVS-6401V	2300,0	2U	
			A	PSS-6401A	1200,0	1U	
			AA	PSS-6401AA	2100,0	2U	
		SDI/ASI		PVS-6401DSI	3800,0	2U	
Consoles***) and software packages for x1 series of routers							
4	1	Remote console		PRR-0401	250,0	1U	*) large (18x18mm) buttons
4	1	Local console		PRL-0401	120,0	1U	
8	1	Remote console		PRR-0801	312,0	1U	
8	1	Local console		PRL-0801	140,0	1U	
16	1	Remote console		PRR-1601	372,0	1U	
16	1	Local console		PRL-1601	294,0	1U	
32	1	Remote console		PRR-3201	522,0	1U	
32	1	Remote console		PRR-3201P*)	890,0	3U	
32	1	Local console		PRL-3201	372,0	1U	
64	1	Remote console		PRR-6401	620,0	2U	
64	1	Remote console		PRR-6401P*)	1298,0	3U	
1. universal X-Y remote console (one console with RS-485 interface)				PRR-1000	420,0	2U	
2. universal X-Y remote console (two consoles with RS-485 interfaces)				PRR-1000-2	700,0	2U	
Software package for MS-Windows					300,0		
***) To order a router with a local control panel, please add the “F” index (for example: PVSS-1601DSIAA-F)							

No. of inputs	No. of outputs	Signal types		Designation code	Price	Rack height (U=44,5 mm)	Notes
		Video	Audio				
x2 series routers							
16	2	V	A	PVS-1602V	1550,0	3U	Any x2 series router may be expanded up to 64x2 capacity. Remote control: <ul style="list-style-type: none"> from a PC via the RS-232 (requires the interface converter), from a console via RS-485. To handle the 48- or 64-source stereo audio a pair of separate MONO routers controlled synchronously is required (<i>except the 16x2 and 32x2 series stereo routers which are available in a single 3U rack</i>)
			AA	PSS-1602A	1430,0		
		V	A	PVSS-1602VA	2384,0		
			AA	PVSS-1602VAA	2884,0		
		YUV	A	PVS-1602CV	3050,0		
		YUV	AA	PVSS-1602CVA	3650,0		
		YC	A	PVS-1602SV	2320,0		
		YC	AA	PVSS-1602SVA	2950,0		
		YC	AA	PVSS-1602SVAA	3550,0		
		SDI	A	PVS-1602D	1950,0		
SDI	AA	PVSS-1602DA	2700,0				
SDI	AA	PVSS-1602DAA	3600,0				
32	2	V	A	PVS-3202V	2320,0	3U	
			AA	PSS-3202A	2120,0		
		V	A	PVSS-3202VA	3400,0		
			AA	PVSS-3202VAA	3552,0		
		YC	A	PVS-3202SV	3850,0		
		SDI	A	PVS-3202D	3150,0		
SDI	AA	PVSS-3202DA	4200,0				
48	2	V	A	PVS-4802V	3085,0	3U	
			AA	PSS-4802A	2600,0		
SDI	A	PVS-4802D	4450,0				
64	2	V	A	PVS-6402V	3850,0	3U	
			AA	PSS-6402A	3300,0		
			AA	PVS-6402D	5824,0		
Consoles and software packages for x2 series of routers							
1. universal X-Y remote console (one console with RS-485 interface)				PRR-1000	420,0	2U	
2. universal X-Y remote console (two consoles with RS-485 interfaces)				PRR-1000-2	700,0	2U	
3. Remote console				PRR-1602	576,0	1U	*) large (18x18mm) buttons
4. Remote console				PRR-1602P*)	890,0	3U	
5. Remote console				PRR-3202	684,0	2U	
6. Remote console				PRR-3202P*)	1298,0	3U	
7. x2 routers are compatible with series x1, 8x, 16x and 32x consoles							
8. Software package for MS-Windows (RS-232 connectivity)					300,0		
8x series routers							
8	8	V	AA	PVS-0808V	540,0	1U	Remote control: <ul style="list-style-type: none"> from a PC via the RS-232 (requires the interface converter), from a console via RS-485. The monitor output is provided. The SDI routers feature the SDI monitoring output.
			AA	PSS-0808AA	790,0		
		V	EE	PSS-0808EE	890,0		
			AA	PVSS-0808VAA	1120,0		
		V	EE	PVSS-0808VEE	1220,0		
			AA	PVS-0808CV	1250,0		
		YUV (RGB)	AA	PVSS-0808CVAA	1830,0		
		YUV (RGB)	EE	PVSS-0808CVEE	1990,0		
		YUV (RGB)	AA	PVS-0808SV	880,0		
		YC	AA	PVSS-0808SVAA	1490,0		
		YC	EE	PVSS-0808SVEE	1590,0		
		SDI	AA	PVS-0808D	1680,0		
		SDI	AA	PVSS-0808DAA	2260,0		
		SDI	EE	PVSS-0808DEE	2360,0		
		HD/SD SDI/ASI	AA	PVS-0808HDSI	2990,0		
		HD/SD SDI/ASI	AA	PVSS-0808HDSIAA	3570,0		
		HD/SD SDI/ASI	EE	PVSS-0808HDSIEE	3670,0		

AUTONOMOUS DEVICES

No. of inputs	No. of outputs	Signal types		Designation code	Price	Rack height (U=44,5 mm)	Notes	
		Video	Audio					
8	4	V	AA	PVS-0804V	500,0	1U	Remote control: <ul style="list-style-type: none"> from a PC via the RS-232 (requires the interface converter), from a console via RS-485. The monitor output is provided. The SDI routers feature the SDI monitoring output	
			AA	PSS-0804AA	700,0	1U		
			EE	PSS-0804EE	800,0	1U		
		V	AA	PVSS-0804VAA	1020,0	1U		
			EE	PVSS-0804VEE	1120,0	1U		
		YUV (RGB)		PVS-0804CV	1120,0	2U		
		YUV (RGB)	AA	PVSS-0804CVAA	1700,0	2U		
		YUV (RGB)	EE	PVSS-0804CVEE	1800,0	2U		
		YC		PVS-0804SV	820,0	1U		
		YC	AA	PVSS-0804SVAA	1360,0	2U		
		YC	EE	PVSS-0804SVEE	1460,0	2U		
		SDI		PVS-0804D	1570,0	1U		
		SDI	AA	PVSS-0804DAA	2000,0	1U		
		SDI	EE	PVSS-0804DEE	2100,0	1U		
		HD/SD SDI/ASI		PVS-0804HDSI	2790,0	1U		
		HD/SD SDI/ASI	AA	PVSS-0804HDSIAA	3217,0	1U		
HD/SD SDI/ASI	EE	PVSS-0804HDSIEE	3317,0	1U				
4	4	V	AA	PVS-0404V	460,0	1U	Remote control: <ul style="list-style-type: none"> from a PC via the RS-232 (requires the interface converter), from a console via RS-485. The monitor output is provided. The SDI routers feature the SDI monitoring output	
			AA	PSS-0404AA	620,0	1U		
			EE	PSS-0404EE	670,0	1U		
		V	AA	PVSS-0404VAA	900,0	1U		
			EE	PVSS-0404VEE	950,0	1U		
		YUV (RGB)		PVS-0404CV	980,0	2U		
		YUV (RGB)	AA	PVSS-0404CVAA	1550,0	2U		
		YUV (RGB)	EE	PVSS-0404CVEE	1600,0	2U		
		YC		PVS-0404SV	780,0	1U		
		YC	AA	PVSS-0404SVAA	1240,0	2U		
		YC	EE	PVSS-0404SVEE	1290,0	2U		
		SDI		PVS-0404D	990,0	1U		
		SDI	AA	PVSS-0404DAA	1430,0	1U		
		SDI	EE	PVSS-0404DEE	1480,0	1U		
		HD/SD SDI/ASI		PVS-0404HDSI	1761,0	1U		
		HD/SD SDI/ASI	AA	PVSS-0404HDSIAA	2201,0	1U		
HD/SD SDI/ASI	EE	PVSS-0404HDSIEE	2250,0	1U				
Consoles***) and software packages for x8 series of routers								
8	8	Remote console		PRR-0808	384,0	1U	*) large (18x18mm) buttons **) controls the monitor output and selects an input for a given output	
8	8	Local console		PRL-0808	288,0	1U		
8	1	Remote console		PRR-0801	312,0	1U		
8	1	Remote console		PRR-0801P*)	436,0	1U		
8	1	Remote console		PRR-0801M**)	384,0	1U		
8	2	Remote console		PRR-0802	384,0	1U		
8	4	Remote console		PRR-0804	372,0	1U		
8	4	Local console		PRL-0804	258,0	1U		
4	4	Remote console		PRR-0404	336,0	1U		
4	4	Local console		PRL-0404	240,0	1U		
4	1	Remote console		PRR-0401	306,0	1U		
4	1	Remote console		PRR-0401M**)	312,0	1U		
4	2	Remote console		PRR-0402	312,0	1U		
1. Software package for MS-Windows (RS-232 connectivity)					300,0			
2. stand-by PSU					150,0			
***) To order a router with a local control panel, please add the "F" index (for example: PVSS-0808HDSIAA-F)								

No. of inputs	No. of outputs	Signal types		Designation code	Price	Rack height (U=44,5 mm)	Notes
		Video	Audio				
16x series routers							
16	16	V	A AA EE	PVS-1616V	1690,0	1U	Remote control: <ul style="list-style-type: none"> from a PC via the RS-232 (requires the interface converter), from a console via RS-485. The monitor output is provided. The SDI routers feature the SDI monitoring output
				PSS-1616A	1220,0	1U	
				PSS-1616AA	1730,0	1U	
		YUV (RGB) YC HD/SD SDI/ASI		PSS-1616EE	1930,0	1U	
				PVS-1616CV	3720,0	3U	
				PVS-1616SV	2712,0	3U	
				PVS-1616HDSI	4690,0	1U	
16	8	V	A AA EE	PVS-1608V	1560,0	1U	
		V		PSS-1608A	1050,0	1U	
		YUV (RGB) YC HD/SD SDI/ASI		PSS-1608AA	1590,0	1U	
				PSS-1608EE	1790,0	1U	
				PVS-1608CV	3120,0	3U	
				PVS-1608SV	2340,0	3U	
				PVS-1608HDSI	3580,0	1U	
Consoles***) and software packages for x16 series of routers							
16	16	Remote console		PRR-1616	576,0	1U	*) large (18x18mm) buttons **) controls the monitor output and selects an input for a given output
16	16	Remote console		PRR-1616P*	890,0	3U	
16	16	Local console		PRL-1616	432,0	1U	
16	1	Remote console		PRR-1601	372,0	1U	
16	1	Remote console		PRR-1601P*	520,0	1U	
16	1	Remote console		PRR-1601M**	576,0	1U	
16	1	Remote console		PRR-1601PM**	890,0	3U	
16	2	Remote console		PRR-1602	576,0	1U	
16	8	Remote console		PRR-1608	528,0	1U	
16	8	Local console		PRL-1608	360,0	1U	
8	8	Remote console		PRR-0808B	372,0		
1. router state indication panel for 16x, 32x, 64x				PPI-1616	210,0		
2. universal X-Y remote console (one console with RS-485 interface)				PRR-1000	420,0	2U	
3. universal X-Y remote console (two consoles with RS-485 interfaces)				PRR-1000-2	700,0	2U	
4. 16x routers are compatible with series x1 and 8x consoles							
5. Software package for MS-Windows (RS-232 connectivity)					300,0		
6. stand-by PSU (for 1U, 2U rack routers)					150,0		
7. stand-by PSU (for 3U rack routers)					200,0		
***) To order a router with a local control panel, please add the "F" index (for example: PVS-1608V-F)							

AUTONOMOUS DEVICES

No. of inputs	No. of outputs	Signal types		Designation code	Price	Rack height (U=44,5 mm)	Notes
		Video	Audio				
32x series routers *)							
Modular design. AC or DC coupled inputs. Overvoltage protection. High CMRR. Monitor output is provided. SDI routers feature the PAL and SDI monitor outputs. Controls: form a PC (RS-232 interface converter required), from console(s) via an RS-485 network.							
32	32	V	A	PVS-3232V	6300,0	3U	A pair of mono routers, controlled synchronously, is required to handle the stereo audio.
		SDI/ASI		PSS-3232A	3900,0	3U	
				PVS-3232DSI	10800,0	3U	
16	32	V	A	PVS-1632V	4600,0	3U	
		SDI/ASI		PSS-1632A	3000,0	3U	
				PVS-1632DSI	9800,0	3U	
32	16	V	A	PVS-3216V	5800,0	3U	
		SDI/ASI		PSS-3216A	3700,0	3U	
				PVS-3216DSI	8200,0	3U	
16	16	V	A	PVS-1616V32	4100,0	3U	
		SDI/ASI		PSS-1616A32	2800,0	3U	
				PVS-1616DSI32	7200,0	3U	
Consoles and software packages for 32x series of routers							
32	32	Remote console		PRR-3232	684,0	2U	*) large (18x18mm) buttons **) controls the monitor output and selects an input for a given output
32	32	Remote console		PRR-3232P*)	1298,0	3U	
32	1	Remote console		PRR-3201	522,0	1U	
32	1	Remote console		PRR-3201M**)	684,0	2U	
32	1	Remote console		PRR-3201PM**)	1298,0	3U	
32	2	Remote console		PRR-3202	684,0	2U	
32	4	Remote console		PRR-3204	456,0	2U	
32	8	Remote console		PRR-3208	468,0	2U	
32	16	Remote console		PRR-3216P*	1050,0	3U	
1. universal X-Y remote console (one console with RS-485 interface)				PRR-1000	420,0	2U	
2. universal X-Y remote console (two consoles with RS-485 interfaces)				PRR-1000-2	700,0	2U	
3. 32x routers are compatible with series x1, 8x and 16x consoles							
4. Software package for MS-Windows (RS-232 connectivity)					300,0		
5. redundant CPU					350,0		
6. stand-by PSU					350,0		
64x series routers *)							
Modular design. AC or DC coupled inputs. Overvoltage protection. High CMRR. Monitor output is provided. SDI routers feature the PAL and SDI monitor outputs. Controls: form a PC (RS-232 interface converter required), from console(s) via an RS-485 network. All 64x routers may be expanded up to 64x64 capacity.							
16	32	V	A	PVSX-1632V	5600,0	6U	To handle the 48- or 64-source stereo audio a pair of separate MONO routers controlled synchronously is required (except the 16x2 and 32x2 series stereo routers which are available in a single 3U rack)
		SDI/ASI	AA	PSSX-1632A	3450,0		
				PSSX-1632AA	6450,0		
				PDSX-1632DSI	13100,0		
16	64	V	A	PVSX-1664V	6100,0	6U	
		SDI/ASI		PSSX-1664A	3880,0		
				PDSX-1664DSI	17800,0		
32	32	V	A	PVSX-3232V	8625,0	6U	
		SDI/ASI	AA	PSSX-3232A	4300,0		
				PSSX-3232AA	8600,0		
				PDSX-3232DSI	14200,0		
32	64	V	A	PVSX-3264V	9300,0	6U	
		SDI/ASI		PSSX-3264A	4960,0		
				PDSX-3264DSI	19200,0		
48	64	V	A	PVSX-4864V	11950,0	6U	
		SDI/ASI		PSSX-4864A	5900,0		
				PDSX-4864DSI	20200,0		
64	64	V	A	PVSX-6464V	14800,0	6U	
		SDI/ASI		PSSX-6464A	7220,0		
				PDSX-6464DSI	21250,0		

#	Description	Designation code	Price	Rack height (U=44,5mm)	Notes
Consoles and software packages for 64x series of routers					
1.	universal X-Y remote console (one console with RS-485 interface)	PRR-1000	420,0	2U	
2.	universal X-Y remote console (two consoles with RS-485 interfaces)	PRR-1000-2	700,0	2U	
3. 64x routers are compatible with series x1, 8x, 16x and 32x consoles					
4. Software package for MS-Windows (<i>RS-232 connectivity</i>)			300,0		
5. redundant CPU			350,0		
6. stand-by PSU (<i>for SDI/ASI routers</i>)			575,0		
7. stand-by PSU (<i>V, A and AA routers</i>)			350,0		
*) 32x series and bigger routers are produced by request					
<p>Acronyms used:</p> <p>V – composite video; YUV(RGB) – component video; SDI – D1 (270MHz) digital video, reclocking, cable equalization; DSI – D1 (270MHz) digital video or DVB-ASI stream; HDSI – HD/SD SDI or DVB-ASI stream; A – analog MONO audio; AA – analog two-channel audio; EE – AES/EBU digital audio; YC – S-VHS video</p>					

A/B SDI and audio switchers

Integration with SDI and 2x, 8x, 16x, 32x, 64x series audio routers to provide the glitch-free switching.

Please, refer to the «[“PROFLEX” modular system, PCSW-3339](#)» chapter

#	Description	Designation code	Price	Rack height (U=44,5mm)	Notes
MFA64 series multiformat stereo-audio router					
Analog stereo or AES/EBU audio routers. Modular design. Routing matrix capacity from 8x8 up to 64x64 in 8 channels increments. Glitch-free switching. User-selectable combination of input and output modules. External AES/EBU or video reference. RS-232/RS-485 or Ethernet (“E” model index). Optional stand-by power supply unit.					
1.	64x64 multiformat stereo audio router (<i>without the I/O modules</i>)	MFA-6464 (MFA-6464E)	1720,0 1920,0	3U	
1.1.	Input and output modules (<i>up to 8 modules in any combination</i>):				
	• analog audio input module (<i>8 stereo inputs</i>)	PINA-01	600,0		
	• analog audio output module (<i>8 stereo outputs</i>)	POTA-03	600,0		
	• AES/EBU input module (<i>8 AES/EBU inputs</i>)	PINA-02	660,0		
	• AES/EBU output module (<i>8 AES/EBU outputs</i>)	POTA-04	420,0		
2.	Stand-by PSU		150,0		
MFA64 series routers are compatible with the x1, 8x, 16x, 32x, 64x series consoles.					

AUTONOMOUS DEVICES

#	Description	Designation code	Price	Notes
Relay bypass modules				
<p>Provides an emergency bypass for analog or digital lines.</p> <p>Relay video bypass modules (PRB-097, PRB-102, PRB-103): three channels for an analog composite (PAL, SECAM) or component (YUV, RGB, YC), digital (SD SDI, DVB-ASI) and HD SDI (PRB-102, PRB-103 only) video and unbalanced digital audio (AES/EBU) signals. BNC connectors. The GPO reports the module status: when in BYPASS (PRB-102, PRB-103). Automatic BYPASS (PRB-097, PRB-103) or keep the previous state (PRB-102) on POWER DOWN condition.</p> <p>Relay audio bypass modules (PRB-098, PRB-100A, PRB-101A): two channels for analog stereo or balanced digital AES/EBU signals. XLR connectors. The GPO reports the module status: NORM or BYPASS (PRB-100A, PRB-101A). Automatic BYPASS (PRB-098, PRB-101A) or keep the previous state (PRB-100A) on POWER DOWN condition.</p> <p>Video and audio bypass modules (PRB-100, PRB-101): for an analog composite (PAL, SECAM), digital (HD SDI) video and balanced/unbalanced analog and AES/EBU audio signals. XLR connectors. The GPO reports the module status: NORM or BYPASS. Automatic BYPASS (PRB-101) or keep the previous state (PRB-100) on POWER DOWN condition.</p> <p>Relay 2x1 video switch (PRB-099): analog composite (PAL, SECAM), digital (SD/HD SDI) video and analog or AES/EBU audio signals. Independent or the "audio follows video" switching modes. The GPO reports the module status: NORM or BYPASS. Keeps the previous state on POWER DOWN condition.</p> <p>Local or remote (GPI) controls.</p> <p>A 1U mounting plate is available to fit up to three (PRB-097, PRB-098, PRB-102, PRB-103) video or one video and one PRB-098 bypass module(s) in a 19" rack.</p>				
1.	relay video bypass module (3-ch, BNC connectors)	PRB-097	120,0	146x132x42mm
2.	relay audio bypass module (2-ch, XLR connectors)	PRB-098	130,0	193x132x42mm
3.	relay PAL/SECAM, HD/SD SDI, stereo audio 2x1 switch	PRB-099	342,0	1U
4.	latching relay PAL/SECAM, HD/SD SDI, stereo audio bypass relay module	PRB-100	335,0	1U
5.	relay PAL/SECAM, HD/SD SDI, stereo audio bypass module	PRB-101	340,0	1U
6.	latching relay PAL/SECAM, HD/SD SDI 3-channel bypass module	PRB-102	480,0	146x132x42mm
7.	relay PAL/SECAM, HD/SD SDI 3-channel bypass module	PRB-103	405,0	146x132x42mm
8.	latching relay stereo audio bypass module	PRB-100A	285,0	1U
9.	relay stereo audio bypass module	PRB-101A	235,0	1U
10.	1U rack mounting plate	PM-021	20,0	1U
Analog stereo audio 8-channel level analyser-logger with monitoring facility				
<p>Analyses up to eight stereo audio signals for level anomalies (pass/fail) logging each event of anomaly. PAL monitor output with bargraph 16-channel audio level meter OSD (PLAT-4070V only). Schedule-controlled analysis and logging on each channel. A schedule is loaded from a PC, an event log and settings are viewable on a PC, module's local and remote consoles. Built-in CMOS calendar/timer. An auxiliary 8x1 switcher selects an input channel for external monitoring/metering on two stereo monitor outputs.</p> <p>Remote console with acoustic and LED alarms. Module is supplied with the control software package.</p>				
1.	Analog stereo audio 8-channel level analyser-logger (PAL monitor output with bargraph audio level meter OSD)	PLAT-4070V	1500,0	

#	Description	Designation code	Price	Notes	
Interface converters and GPI adapters					
1.	Interface conversion module (<i>ETHERNET</i> → <i>RS485</i> , <i>RS232</i> → <i>RS485</i>)	PIC-4094	295,0		
2.	RS-485 “PROFIT” proprietary protocol repeater	PNPT-4098	250,0		
3.	Interface conversion module (<i>RS-232</i> → <i>RS-485</i>)	PIC-094	120,0		
4.	Interface conversion module (<i>RS-232</i> → <i>8-ch GPI</i>)	PIC-4051	210,0		
5.	RS-485 driven TALLY (<i>on-air</i>) adapter	PIC-4051TK	210,0		
6.	Interface conversion module (<i>48-ch GPI</i> → <i>RS-232</i>)	PIC-4052	240,0		
7.	Interface conversion module (<i>48-ch GPI</i> → <i>RS-485</i> , with software package)	PIC-4052K	340,0		
8.	RS-485 network 12-port HUB	PHUB-4002	350,0		
9.	GPI, RS-232 control console (<i>14 GPI</i> , clamp-on connectors; <i>RJ45 connectors</i>)	PGPI-4054-14	350,0		
10.	GPI, RS-232 control console (<i>8 GPI</i> , clamp-on connectors; <i>RJ45 connectors</i>)	PGPI-4054-8	250,0		
11.	GPI, RS-232 control console (<i>2 GPI</i> , clamp-on connectors; <i>RJ45 connectors</i>)	PGPI-4054-2	190,0		
12.	1U mounting plate (<i>for PIC-4051</i> , <i>PIC-4052</i>)	PM-021	20,0		
Patch-panels and cable fittings ^{*)}					
1.	16-BNC 1U patch-panel	PPB-16	180,0		
2.	8-BNC 1U patch-panel	PPB-8	124,0		
3.	16-XLR-female 1U patch-panel	PPX-16F	156,0		
4.	16-XLR-male 1U patch-panel	PPX-16M	138,0		
5.	8-XLR-female 1U patch-panel	PPX-8F	100,0		
6.	8-XLR-male 1U patch-panel	PPX-8M	100,0		
7.	8-XLR-female/8-XLR-male 1U patch-panel	PPX-8MF	144,0		
8.	4-XLR-female/12-XLR-male 1U patch-panel	PPX-12M4F	144,0		
9.	12-XLR-female/4-XLR-male 1U patch-panel	PPX-4M12F	144,0		
10.	DUB25pin→clamp-on adapter	PBS-25	24,0		
11.	DUB25pin→four XLRs cable-adapter:	0,5 m	PKD25-4X-0,5	30,0	Replace “X” with the XLR connector type (“F” – female, “M” – male); specify to order
		1,0 m	PKD25-4X-1,0	32,0	
		1,5 m	PKD25-4X-1,5	38,0	
		• Other combinations are available on request.			

^{*)} Other modifications of patch-panels are available.

Please, refer to Anex#1

"CRAB" modular system

20 mm slots modules placement.

1U "CRAB" rack has four slots, 2U – eight slots, 3U – sixteen slots.
Common power supply bus, common control bus across all the slots.

VIDEO distribution amplifiers, cable equalizers

Designation code	No. of inputs	No. of outputs	High CMRR	DC restoration	Cable equalizer C*	Relay bypass	No. of slots occupied	Price
PVD-1061-5 (11)	1	5 (11)	+			+	1 (2)	130 (160)
PVD-1061-5 (11) D	1	5 (11)	+	+		+	1 (2)	180 (210)
PVD-1061-5 (11) C*	1	5 (11)	+		+	+	1 (2)	130 (160) +C*
PVD-1061-5 (11) C*D	1	5 (11)	+	+	+	+	1 (2)	180 (210) +C*
C* - cable equalizer types: C1 – simplified, up to 400 meters (two presets - GAIN, EQ) C6 – advanced, six-band, up to 2 km (depends on the cable)								40,0 80,0

AUDIO distribution amplifiers

Output level indication, ± 12 dB gain presets.

Designation code	No. of inputs	No. of outputs	IN/OUT connector type	Relay bypass	Balanced output *)	No. of slots occupied	Price
Transformerless balanced input *)							
PAD-1062-7X **)	1	7	XLR	+	+	4	180,0
PAD-1062-7D	1	7	DB25	+	+	1	150,0
PAD-1062-7K	1	7	clamp-on ***)	+	+	2	180,0
PAD-1062-3X	1	3	XLR	+	+	2	166,0
PAD-1062-3K	1	3	clamp-on ***)	+	+	1	166,0
Transformer-balanced input							
PAD-1063-7X **)	1	7	XLR	+	+	4	280,0
PAD-1063-7D	1	7	DB25	+	+	1	250,0
PAD-1063-7K	1	7	clamp-on ***)	+	+	2	291,0
PAD-1063-3X	1	3	XLR	+	+	2	266,0
PAD-1063-3K	1	3	clamp-on ***)	+	+	1	266,0

*) - unbalanced optional connection possible

**) - fits 1U rack only

***) - clamp-on connectors

Relay VIDEO 2x1 switch with distribution amplifier

GPI-controlled: manual or from a changeover module

Designation code	No. of inputs	No. of outputs	High CMRR	DC restoration	Cable equalizer C*	No. of slots occupied	Price	
PVD-1061-3 (9)	2	3 (9)	+			1 (2)	150 (180)	
PVD-1061-3 (9) D	2	3 (9)	+	+		1 (2)	200 (230)	
PVD-1061-3 (9) C*	2	3 (9)	+		+	1 (2)	150 (180) +C*	
PVD-1061-3 (9) C*D	2	3 (9)	+	+	+	1 (2)	200 (230) +C*	
C* - cable equalizer types: C1 – simplified, up to 400 meters (two presets - GAIN, EQ) C6 – advanced, six-band, up to 2 km (depends on the cable)								40,0 80,0

VIDEO changeovers (2x1 switch)							
Automatic or manual (local or remote /GPI/) changeover to the stand-by channel on video loss condition. Relay bypass on power down condition.							
Designation code	No. of inputs	No. of outputs	High CMRR	DC restoration	Cable equalizer C1 (up to 400 meters) /main channel/	No. of slots occupied	Price
PVD-1061-2	2	2	+			1	220,0
PVD-1061-2D	2	2	+	+		1	270,0
PVD-1061-2C1	2	2	+		+	1	270,0
PVD-1061-2C1D	2	2	+	+	+	1	320,0

AUDIO changeovers (2x1 switch)							
The 'audio follows video' changeover action under the PVD-1061-2 or manual controls /GPI/. Relay bypass on power down condition. Balanced or unbalanced inputs.							
Designation code	No. of inputs	No. of outputs	IN/OUT connector type	Output level meter	Gain presets	No. of slots occupied	Price
PAD-1062R-6D	2	6	DB25	+	+	1	170,0
PAD-1062R-2X	2	2	XLR	+	+	2	186,0
PAD-1062R-5K	2	5	clamp-on***)	+	+	2	200,0

VIDEO and AUDIO changeovers (2x1 video and balanced stereo audio switch)								
Automatic or manual (local or remote /GPI/) changeover to the stand-by channel on video loss condition. High reliability of the fault condition detection. VBI-timed switching action. Relay bypass on power down condition. Input signals' status indicators. The "audio follows video" switching action. DB-25 audio connectors. High CMRR of video input.								
Designation code	No. of inputs		No. of outputs		DC restoration	Cable equalizer C1 (up to 400 meters) on main channel	No. of slots occupied	Price
	video	audio crepeo	video	audio				
PVD-1061A-2	2	2	2	1			2	240,0
PVD-1061A-2D	2	2	2	1	+		2	290,0
PVD-1061A-2C1	2	2	2	1		+	2	290,0
PVD-1061A-2C1D	2	2	2	1	+	+	2	340,0

<i>Wide selection of patch-panels is available.</i>	<i>Please, refer to Annex#1</i>
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“CRAB” modular system racks and additional equipment			
Description	Designation code	Price	Notes
«CRAB» modular system racks with a backplain and 187\pm242VAC power supply			
1. 1U “CRAB” rack	PK1UM	250,0	For a rack with two PSUs – the main and stand-by one – please add the “D” index to the model (for example: PK3UMD)
2. 2U “CRAB” rack	PK2UM	280,0	
3. 3U “CRAB” rack	PK3UM	630,0	
4. stand-by power supply unit for 1U and 2U racks		150,0	
5. stand-by power supply unit for 3U racks		200,0	
«CRAB» modular system racks with a backplain and 36\pm72VDC power supply			
1. 1U “CRAB” rack	PK1U-DC	250,0	
2. 2U “CRAB” rack	PK2U-DC	280,0	

"PROFLEX" modular system

A module occupies one or two 20mm slot(s). 1U "PROFLEX" rack has four slots, 3U rack – seventeen slots.
Global REF routed to all slots.

Description	Designation code	Rack slots occupied	Price	Notes
Multistandard decoders/encoders/transcoders/ADC/DAC/synchronizers/noise reducers				
ADC - 10 bits; DAC - 12 bits. PAL frequency response: 5,5MHz ±0,5dB, adaptive comb filter. SECAM frequency response: 2,8MHz ±0,1dB; 3,2MHz less than -3dB; 4,28MHz better than -40dB; 5,8MHz ±0,5dB. REF: PAL/SECAM,H/2. Built-in VITS and colorbar generators. Optional synchronizer. Optional noise reducer - multimode filters; adaptive motion detector. VBI contents restore mode from REF to the output. Decoders and synchronizers: PAL output available in SDI/YUV output modes.				
1. SDI/PAL/SECAM => PAL/SECAM/YC (noise reducer - index NR)	PMFE-3301 (PMFE-3301NR)	1	1180,0 (1780,0)	
2. SDI/YUV/RGB/PAL/SECAM/YC => PAL/SECAM/YC (noise reducer - index NR)	PMFE-3302 (PMFE-3302NR)	2	1250,0 (1850,0)	
3. SDI/PAL/SECAM => SDI/YUV/PAL/SECAM/YC,PAL (noise reducer - index NR)	PMFD-3303 (PMFD-3303NR)	1	1350,0 (1950,0)	
4. SDI/YUV/RGB/PAL/SECAM/YC => SDI/YUV/PAL/SECAM/YC,PAL (noise reducer - index NR)	PMFD-3304 (PMFD-3304NR)	2	1450,0 (2050,0)	
5. SDI/PAL/SECAM => SDI/YUV,PAL (noise reducer - index NR)	PMFD-3311 (PMFD-3311NR)	1	1180,0 (1780,0)	
6. SDI/YUV/RGB/PAL/SECAM/YC => SDI/YUV,PAL (noise reducer - index NR)	PMFD-3312 (PMFD-3312NR)	2	1250,0 (1850,0)	
PAL/SECAM transcoders				
ADC - 10 bits; DAC - 12 bits, adaptive comb filter. VBI contents pass-through. Built-in VITS and color bar generators.				
1. PAL/SECAM => SECAM/PAL transcoder	PMFE-3301M	1	695,0	
MPEG4 (H.264/AVC) transcoders				
Transcoding the ASI MPEG2 into ASI MPEG4 (H.264/AVC) with ASI and Ethernet 100Base-T interfaces.				
1. MPEG2 => MPEG4 (H.264/AVC) transcoder	PMPT-3620	2	4500,0	
Encoders				
PENC-3005: PAL/SECAM: 10 bits, REF – PAL/SECAM, H/2; outputs: PAL/SECAM – two or S-VHS – one; SNR >63dB. PENC-3338: automatic cable equalisation. Reclocked SDI output. EDH packets and embedded audio presence indication. EDH status (min/hour) display. SDI signal loss indication. Deembeddable audio group selection (for bargraph OSD). dBu/dBFS audio level scale selection. Monitor SDI output with the bargraph audio level meter OSD. Monitor PAL/YC/YPrPb/RGB output with audio level meter OSD.				
1. D1=> PAL/SECAM encoder	PENC-3005	1	1212,0	
2. SDI => PAL/YC/YUV/RGB/SDI monitoring encoder	PENC-3338	1	698,0	

Description	Designation code	Rack slots occupied	Price	Notes
Analog to digital and digital to analog converters - ADC, DAC				
Antialias filters and SDI signal parameters comply with ITU Rec. 601 and 656. EDH insertion.				
1. YUV/RGB=>D1 analog to digital converter	PADC-3015M	2	960,0	
2. D1=>YUV/RGB, PAL digital to analog converter	PDAC-3016	1	840,0	
HD/SD SDI, SECAM synchronizers				
Video quality is preserved in SECAM processing (PSSY-3082SP). Audio delay equals to the video delay, 4-channel audio volume level meter OSD at PAL monitor output (SDIembedded, PDFE-3307, -3308, -3309) or HDMI (PDFE-7307, -7308, 7309). Manual override of audio delay.				
1. SECAM=>SECAM frame synchronizers (without decoding)	PSSY-3082SP	1	960,0	1080i/50 720p/50 625i/50 compliance *) AA – 2 analog stereo pairs or AE – 1 analog stereo pair and 1 AES channel or EE – 2 AES channels
2. SDI=>SDI synchronizer (with noise reducer "NR") – 3 SDI outputs, PAL output, REF input	PDFS-3313 (PDFS-3313NR)	1	980,0 (1580,0)	
3. SDI=>SDI synchronizer (with noise reducer "NR") – 2 SDI outputs, PAL output, REF pass-through input	PDFS-3313-2 (PDFS-3313NR-2)	1	980,0 (1580,0)	
4. SDI=>SDI synchronizer with embedded audio support (PAL monitor output)	PDFE-3307	1	1480,0	
5. SDI=>SDI synchronizer with embedded audio support, auxiliary audio output (PAL monitor output)	PDFE-3308 AA/AE/EE *)	2	1680,0	
6. SDI=>SDI synchronizer with embedded audio support, auxiliary audio input (PAL monitor output)	PDFE-3309 AA/AE/EE *)	2	1680,0	
7. HD/SD SDIembedded synchronizer with HDMI auxiliary output	PDFE-7307	1	2100,0	
8. HD/SD SDIembedded synchronizer with audio and HDMI auxiliary outputs	PDFE-7308 AA/AE/EE *)	1	2500,0	
9. HD/SD SDIembedded synchronizer with audio input and HDMI auxiliary output	PDFE-7309 AA/AE/EE *)	1	2500,0	
10. For transcoders with another set of Input/Output standards, please refer to Multistandard converters, timebase correctors, noise reducers				
3G/HD/SD SDI aspect ratio converters (crossconverters)				
3G/HD/SD SDI crossconverters support all 20 standard aspect ratios including the high and standard definition TV. Any combination of input and output aspect ratio is available. Output signal may be synchronized to a REF (provided the REF and the output signals' standards are the same). SDIembedded audio support with "audio delay follows video" capability". Built-in noise reduction unit. Aspect rate conversion (with or without the simultaneous standard conversion) or Scaling with the preset and user-configurable (provided by request) modes. WSS support.				
1. 3G/HD/SD SDIembedded aspect ratio converter	PHDC-7301	1	4500,0	

Description	Designation code	Rack slots occupied	Price	Notes	
Master SPGs					
Referenced and free-run (up to 1-10-6 accuracy) modes. PAL, SECAM, SDI output signals - black-burst video, HDTV trilevel sync pulse (PFSG-7317). Optional LTC output (PFSG-3317-1). Built-in colorbar generator.					
1. Synchrogenerator (REF input; five user-configurable outputs: - Up to five PAL/SECAM black-burst outputs, - Up to four SDI outputs, - Combination of PALblack-burst/SECAM/SDI outputs)	PFSG-3317	1	750,0		
2. Synchrogenerator (pass-through REF input; five user-configurable outputs: - Up to five PAL/SECAM black-burst outputs, - Up to four SDI outputs, - Combination of PALblack-burst/SECAM/SDI outputs - balanced LTC output, - unbalanced LTC output, - RS-232 orEthernet / model index "E"/ for clock-calender synchronization	PFSG-3317-1 (PFSG-3317-1E)	2	950,0 (1050,0)	PFSG-3317-1: system time/date presetable from it's frontal panel or a PC	
3. SD and HDTV synchrogenerators (pass-through REF input, four user-configurable outputs either of: - four outputs of HDTV trilevel sync pulse (18 standards - four PAL black-burst outputs - two outputs of HDTV trilevel sync pulse (TLS) and two PAL black-burst outputs	PFSG-7317	1	1200,0		
3G/SDI/ASI/HDS DI distribution amplifiers					
Cable equalization, reclocking. Automatic standard detection (SDI/ASI). EDH status (min/hour) indication for SDI and CRC for ASI signal. SDI/ASI signal loss and ASI polarity indication. PAL/NTSC monitor output and 525/60 standard indication for SDI signal (PDVA-3347). Relay bypass to the first output on power down.					
1. SDI/ASI 1x4 distribution amplifier	PDVA-3337-4	1	390,0		
2. SDI 1x8 distribution amplifier	PDVA-3337-8	2	460,0		
3. HDS DI/SDI/ASI 1x4 distribution amplifier	PDVA-7337	1	740,0		
4. HD/SD/SDI 1x10 distribution amplifier	PDVA-7337-10	1	840,0		
5. 3G/HD/SD/SDI/ASI 1x4 distribution amplifier with HDMI auxiliary output	PDVA-7338-4	1	870,0		
6. 3G/HD/SD/SDI/ASI 1x8 distribution amplifier with HDMI auxiliary output (four ASI outputs, four inverted ASI outputs)	PDVA-7338-8	2	950,0		
3G/HD/SD SDI/ASI/TELECOM distribution amplifiers					
Cable equalization, reclocking. Automatic bitrate detection. BER monitoring. Relay bypass to the first output on power down.					
1. 3G/HD/SD SDI/ASI/Telecom 1x4 distribution amplifiers	PDVA-7339-4	1	840,0		
2. 3G/HD/SD SDI/ASI/Telecom 1x8 distribution amplifiers (four ASI outputs, four inverted ASI outputs)	PDVA-7339-8	2	920,0		
Analog video distribution amplifiers, cable equalizers, video and audio changeovers					
Balanced input with common mode noise suppression. DC restore option - model index "D". Relay bypass on power down. Cable equalizer, up to 200meters, GAIN and EQ settings. Automatic and manual (local and remote - by GPI commands) video changeover controls. The changeover is timed to the VBI to provide a glitch-free switching (for synchronized signals). Input signal lost/present status indication. The "audio follows video" capability. DB-25 audio connectors for balanced stereo signals.					
Distribution amplifiers					
1. video 1x5 distribution amplifier	PPVD-3361-5 (B)	1	140,0 (190,0)*	The "B" index denotes the DC-restore option. * the price shown for the "-B" indexed modification	
2. video 1x11 distribution amplifier	PPVD-3361-11 (B)	2	170,0 (220,0)*		
Distribution amplifiers with cable equalizer					
3. video 1x5 distribution amplifiers with cable equalizer	PPVD-3361-5C1 (B)	1	180,0 (230,0)*		
4. video 1x11 distribution amplifiers with cable equalizer	PPVD-3361-11C1 (B)	2	210,0 (270,0)*		
Video changeovers					
5. videochangeover	PPVD-3361-2 (B)	1	230,0 (280,0)*		

6. videochangeover with cable equalizer on the main video input	PPVD-3361-2C1 (B)	1	270,0 (320,0)*
<i>Video and audio changeovers</i>			
7. video- audiochangeover	PPVD-3361A-2 (B)	2	250,0 (300,0)*
8. video- audiochangeover with cable equalizer on the main video input	PPVD-3361A-2C1 (B)	2	290,0 (340,0)*

Description	Designation code	Rack slots occupied	Price	Notes
Analog audio STEREO/MONO distribution amplifiers				
Balanced inputs and outputs. Capability of the single-ended input and output connection. Frontal panel accessible gain correction for the single-ended (unbalanced) connection. Per-channel gain presets in the ±12dB range with 0,5dB increments. Signal presence indication and correlometer. User-selectable input impedance: 600 Ohm/High-Z. Relay bypass.				
1. stereo audio 1x3 distribution amplifier (<i>clamp-on connectors</i>)	PPAD-3362-3K	2	330,0	
2. stereo audio 1x3 distribution amplifier (<i>DB-25 connectors</i>)	PPAD-3362-3D	1	310,0	
3. mono audio 1x7 distribution amplifier (<i>clamp-on connectors</i>)	PPAD-3362-7K	2	270,0	
4. mono audio 1x7 distribution amplifier (<i>DB-25 connectors</i>)	PPAD-3362-7D	1	250,0	
5. mono audio 1x3 distribution amplifier (<i>XLR connectors</i>)	PPAD-3362-3X	2	260,0	
SDI/ASI/HDSDI and audio- changeovers				
Automatic changeover mode with manual override. Programmable changeover delay. Automatic or manual changeback. GPI inputs and outputs. Automatic standard selection: HD/SD SDI, ASI. EDH status indication. CRC error indication for ASI. Signal loss indication. Monitor output for the MAIN and STDBY lines. PAL/NTSC monitor output for SDI input signals. Latching dryreed relays for the program lines, electronic switch for monitor output. Two optional balanced (PCOV-3326-1) or unbalanced (PCOV-3326-2) audio stereo channels. Changeover criterions: SDI - EDH/CRC errors, synchro loss, embedded audio loss; ASI - loss of SMPTE synchro.				
1. SDI/ASI changeover	PCOV-3326	1	980,0	
2. SDI/ASI changeover (<i>with two auxiliary unbalanced channels support</i>)	PCOV-3326-1	2	1080,0	
3. SDI/ASI changeover (<i>with two auxiliary balanced stereo audio channels support</i>)	PCOV-3326-2	2	1080,0	
4. HDSDI changeover	PCOV-7326	1	1500,0	
5. HDSDI changeover (<i>with two auxiliary unbalanced channels support</i>)	PCOV-7326-1	2	1600,0	
6. HDSDI changeover (<i>with two auxiliary balanced stereo audio channels support</i>)	PCOV-7326-2	2	1600,0	
A/B SDI and audio switchers				
Timebase correctors on both inputs. X-Mix, V-Mix and CUT transitions with presettable rate. FADE TO BLACK effect. PAL/SECAM/SDI and stereo audio program outputs. Audio level meter bargraph (for SDI embedded and input sources) OSD on the PAL PREVIEW output. An "AA" option with two auxiliary audio inputs. Interoperation with an SDI/audio switcher of any capacity for glitch-free program transitions. No video/audio delay. GPI-controllable (2 inputs, 2 outputs) or full remote control via rack's CPU.				
1. A/B SDI switcher	PCSW-3339	2	1600,0	
2. A/B SDI and stereo audio switcher	PCSW-3339AA	2	1900,0	
3. GPI/RS-232 control panel (<i>2 GPI; clamp-on and RJ45 connectors</i>)	PGPI-4054-2		190,0	
VITS generators and inserters				
GOST 18471-83 compliant VITS generator-inserter for SECAM and PAL signals. One input and three PAL/SECAM outputs, relay bypass. Full-field test signal capability.				
1. VITS generator-inserter	PGTS-3332	1	520,0	
2. SDI test signals generator-inserter	PGTS-3333	1	850,0	
Audio level bargraph OSD				
Four balanced/unbalanced inputs. Peak or RMS meter modes. Quasi-peak or EBU scales. 0dB or +6dB reference level. Video inputs: composite (PAL/SECAM) or component (Y,R-Y,B-Y). Video outputs: PAL with four-channel audio level bargraph OSD.				
1. audio level meter with bargraph OSD (<i>inputs: PAL/SECAM, YUV video, 4-channel analog audio, output: PAL</i>)	PIND-3112	1	640,0	<i>For SDI output option, please refer to PENC-3338</i>

Description	Designation code	Rack slots occupied	Price	Notes
Multistandard logo generators, inserters, titlers				
720x576 pixels screen resolution, 16M color palette. Separate layer for alpha channel. Graphical logos and scrolling texts are loadable and manageable via Ethernet (a CPU in a rack is not required). Schedule-controlled or live playback of the preloaded scrolling texts under IBM PC or GPI control. Up to seven scenes, each describes one graphic logo and four symbolic. One script to manage these scenes. Nonvolatile storage up to four TV frames (720x576pixels) for logos. Data sources for text logos can be: temperature sensor (PTC-095), meteorstation (PMM-4095) and calendar (PTT-4096) via RS-485 network (requires a CPU module in a rack). Optional synchronizer and PAL PREVIEW output. Relay bypass.				
1. PAL/SECAM/YUV/SDI=>PAL/SECAM/YC logo-mixer and synchronizer <i>(inputs: PAL/SECAM/YUV/SDI, REF, GPI, RS-232 or Ethernet (model index "E"); outputs: PAL/SECAM/YC, PAL Preview)</i>	PNLG-3321	2	1530,0	
	PNLG-3321E	2	1730,0	
2. PAL/SECAM/YUV/SDI=>SDI/YUV logo-mixer and synchronizer <i>(inputs: PAL/SECAM/YUV/SDI, REF, GPI, RS-232 or Ethernet (model index "E"); outputs: SDI/YUV, PAL Preview)</i>	PNLG-3322	2	1630,0	
	PNLG-3322E	2	1830,0	
3. SDI/YUV/RGB/PAL/SECAM/YC=>SDI/YUV/PAL/SECAM/YC logo-mixer and synchronizer <i>(inputs: PAL/SECAM/YUV/RGB/SDI/YC, REF, GPI, RS-232 or Ethernet (model index "E"); outputs: SDI/YUV/PAL/SECAM/YC, PAL Preview)</i>	PNLG-3324	2	1830,0	
	PNLG-3324E	2	1930,0	
Audio ADC, DAC, delay lines				
Two-channel (stereopair) 24-bits conversion. AES/EBU output standard with 32kHz, 44.1kHz, 48kHz and 96kHz sampling rates. Built-in test-signal generator. Analog input overload protection by presettable attenuator. Optional +6dB level on audio output. Manually presettable audio delay - up to 1.3sec at 48kHz sampling rate. Presettable audio level at digital and analog outputs, from -12dB to +12dB with 0.5dB steps.				
1. analog audio delay line <ul style="list-style-type: none"> • one balanced stereo input, • two balanced stereo outputs (DB-25 connector) 	PADL-3101	1	852,0	
2. audio ADC with a delay line: <ul style="list-style-type: none"> • one balanced stereo input (DB-25), • two balanced AES outputs (DB-25, 110 Ohm), • two unbalanced AES outputs (BNC, 75 Ohm) – autonomous synchronization <i>Or</i> – by video signal (BNC, 75 Ohm) <i>Or</i> – by external AES, balanced/unbalanced (DB-25, 110 Ohm / BNC, 75 Ohm);	PAAD-3102	1	744,0	
	PAAD-3102V	1	864,0	
	PAAD-3102A	1	864,0	
3. AES audio delay line: <ul style="list-style-type: none"> • one balanced / unbalanced input (DB-25, 110 Ohm / BNC, 75 Ohm), • two balanced outputs (DB-25, 110 Ohm), • two unbalanced outputs (BNC, 75 Ohm) 	PADL-3103	1	624,0	
4. audio DAC with a delay line: <ul style="list-style-type: none"> • one balanced / unbalanced AES input (DB-25, 110 Ohm / BNC, 75 Ohm), • two balanced stereo outputs (DB-25, 110 Ohm) 	PADA-3104	1	744,0	

Description	Designation code	Rack slots occupied	Price	Notes
AES/EBU audio distribution amplifiers				
Balanced or unbalanced (coaxial) inputs and outputs. 24 bits and 32~96kHz sampling rates supported. Controllable output audio level +12dB with 0,5dB steps. Headphone monitor output (JACK 6,3mm connector), -50dB ~ +6dB level. Channel status check. Relay bypass.				
1. AES/EBU audio 1x5 distribution amplifier <ul style="list-style-type: none"> • one unbalanced input (<i>BNC, 75 Ohm</i>) • five unbalanced outputs (<i>BNC, 75 Ohm</i>) 	PDDA-3106-5	1	276,0	
2. AES/EBU audio 1x11 distribution amplifier <ul style="list-style-type: none"> • one unbalanced input (<i>BNC, 75 Ohm</i>) • eleven unbalanced outputs (<i>BNC, 75 Ohm</i>) 	PDDA-3106-11	2	294,0	
3. AES/EBU audio 1x7 distribution amplifier <ul style="list-style-type: none"> • one balanced input (<i>DB-25, 110 Ohm</i>) • seven balanced outputs (<i>DB-25, 110 Ohm</i>) 	PDDA-3106-7DB	1	354,0	
4. AES/EBU audio 1x9 distribution amplifier universal <ul style="list-style-type: none"> • one balanced input (<i>DB-25, 110 Ohm</i>) • one unbalanced input (<i>BNC, 75 Ohm</i>) • seven balanced outputs (<i>DB-25, 110 Ohm</i>) • two unbalanced outputs (<i>BNC, 75 Ohm</i>) 	PDDA-3106-9UB	1	396,0	
5. AES/EBU audio 1x3 distribution amplifier <ul style="list-style-type: none"> • one balanced input (<i>XLR, 110 Ohm</i>) • three balanced outputs (<i>XLR, 110 Ohm</i>) 	PDDA-3106-3XB	2	354,0	
AES/EBU audiochangeovers				
Automatic changeover mode with manual override, local and remote controllable. Programmable changeover delay and criterions. Latching dryreed relays for the program lines. Errors counter indication. Monitor output for the MAIN line.				
1. AES/EBU audiochangeover (<i>balanced inputs/outputs</i>)	PCOA-3105	1	490,0	
2. AES/EBU audiochangeover (<i>unbalanced inputs/outputs</i>)	PCOA-3105-1	1	490,0	

Description	Designation code	Rack slots occupied	Price	Notes
HD/SD SDI audio embedders				
Four channels of analog or AES/EBU digital audio, synchronized or unsynchronized to a video, with 32kHz, 44,1kHz, 48kHz and 96kHz sampling rates. 24-bits audio ADC. PAL or HDMI monitor output with 4-channel bargraph audio level OSD. Different audio formats on different inputs permitted. Presetable input attenuator. Balanced analog audio inputs, balanced or unbalanced digital inputs.				
Video format: HD/SD SDI input; HD/SD SDI output				1080i/50, 720p/50, 625i/50 compliance
1. four-channel analog SDI embedders	PEMB-3108AA	1	1320,0	
2. two-channel analog/one-channel AES/EBU SDI embedders	PEMB-3108AE	1	1350,0	
3. two-channel AES/EBU SDI embedders	PEMB-3108EE	1	1350,0	
4. four-channel analog SD/HD SDI embedders with HDMI monitor output	PEMB-7108AA	1	1850,0	
5. two-channel analog/one-channel AES/EBU SD/HD SDI embedders with HDMI monitor output	PEMB-7108AE	1	1850,0	
6. two-channel AES/EBU SD/HD SDI embedders with HDMI monitor output	PEMB-7108EE	1	1850,0	
Video format: PAL/SECAM/SDI input, SDI output				
1. four-channel analog SDI embedders with PAL/SECAM/SDI=>SDI conversion - one SDI output - three SDI outputs	PEMB-3305AA	1	1600,0	
	PEMB-3305AA-3	2	1680,0	
2. two-channel analog/one-channel AES/EBU SDI embedders with PAL/SECAM/SDI=>SDI conversion - one SDI output - three SDI output	PEMB-3305AE	1	1600,0	
	PEMB-3305AE-3	2	1680,0	
3. two-channel AES/EBU SDI embedders with PAL/SECAM/SDI=>SDI conversion - one SDI output - three SDI output	PEMB-3305EE	1	1600,0	
	PEMB-3305EE-3	2	1680,0	
4. eight-channel analog SDI embedders with PAL/SECAM/SDI=>SDI conversion	PEMB-3305-8AA	1	1890,0	
5. four-channel analog/two-channel AES/EBU SDI embedders with PAL/SECAM/SDI=>SDI conversion	PEMB-3305-8AE	1	1890,0	
6. four-channel AES/EBU SDI embedders with PAL/SECAM/SDI=>SDI conversion	PEMB-3305-8EE	1	1890,0	

Description	Designation code	Rack slots occupied	Price	Notes
HD/SD SDI audio deembedders				
Four channels of analog or AES/EBU digital audio. 24-bits audio DAC. Monitor output with 4-channel bargraph audio level OSD (PAL for PEXT-3xxx, HDMI for PEXT-7xxx). Different audio formats on different outputs permitted. Balanced analog audio outputs, balanced or unbalanced digital outputs.				
Video format: HD/SD SDI input; HD/SD SDI output				
1. four-channel analog SDI deembedders	PEXT-3118AA	1	1034,0	1080i/50, 720p/50, 625i/50 compliance
2. two-channel analog/one-channel AES/EBU SDI deembedders	PEXT-3118AE	1	1084,0	
3. two-channel AES/EBU SDI deembedders	PEXT-3118EE	1	1084,0	
4. four-channel analog SD/HD SDI deembedders with HDMI monitor output	PEXT-7118AA	1	1890,0	
5. two-channel analog/one-channel AES/EBU SD/HD SDI deembedders with HDMI monitor output	PEXT-7118AE	1	1890,0	
6. two-channel AES/EBU SD/HD SDI deembedders with HDMI monitor output	PEXT-7118EE	1	1890,0	
Video format: SDI input, PAL/SECAM/SDI output				
1. four-channel analog SDI deembedders with SDI=>PAL/SECAM/SDI conversion	PEXT-3325AA	1	1686,0	
2. two-channel analog/one-channel AES/EBU SDI deembedders with SDI=>PAL/SECAM/SDI conversion	PEXT-3325AE	1	1718,0	
3. two-channel AES/EBU SDI deembedders with SDI=>PAL/SECAM/SDI conversion	PEXT-3325EE	1	1718,0	
4. eight-channel analog SDI deembedders with SDI=>PAL/SECAM/SDI conversion	PEXT-3325-8AA	1	1830,0	
5. four-channel analog/two-channel AES/EBU SDI deembedders with SDI=>PAL/SECAM/SDI conversion	PEXT-3325-8AE	1	1830,0	
6. four-channel AES/EBU SDI deembedders with SDI=>PAL/SECAM/SDI conversion	PEXT-3325-8EE	1	1830,0	
SDH (STM1) compliant optimising DVB-ASI transport stream multiplexer				
STM1 compliant optimising DVB-ASI transport stream multiplexers support up to four input streams and are also capable of packing of one unidirectional RS-422 and up to sixteen GPI signals into an STM1 (155Mbps) stream. Optical and electrical STM1 inputs/outputs. The output STM1 stream is SDH network compatible. The "payload only" optimization algorithm. The totals amount of the payload in all the four input streams should not exceed the 130Mbps limit. The main and stand-by inputs and outputs, monitor output (PMTS-3401, PDTS-3410, PDTS-3410E), 2,048MHz sync input. LC type optical connectors (SFP modules). 0~3dBm output optical power, -3~-26dBm (-9~-32dBm for "A" indexed models) input optical power.				
1. four-channel STM1 compliant optimising DVB-ASI transport stream multiplexer (with optical MAIN and STDBY outputs)	PMTS-3401 (CW##)*	2	4000,0 (4600,0)	* CW## – CWDM module index, ## – CWDM wavelength
2. four-channel STM1 compliant optimising DVB-ASI transport stream multiplexer (with optical output)	PMTS-3401S (CW##)*	1	3500,0 (4100,0)	

Description	Designation code	Rack slots occupied	Price	Notes
3. four-channel STM1 compliant optimising DVB-ASI transport stream multiplexer (<i>with optical MAIN and STDBY outputs</i>)	PDTS-3410 (PDTS-3410A)	2	3900,0 (4320,0)	* CW## – CWDM module index, ## – CWDM wavelength
4. four-channel STM1 compliant optimising DVB-ASI transport stream multiplexer (<i>with electrical MAIN and STDBY outputs</i>)	PDTS-3410E	2	3500,0	
5. four-channel STM1 compliant optimising DVB-ASI transport stream multiplexer (<i>with electrical input</i>)	PDTS-3410SE	1	2800,0	
6. STM1 compliant optimising DVB-ASI transport stream multiplexer (<i>with optical input</i>)	PDTS-3410S (PDTS-3410SA)	1	2800,0 (3220,0)	
Optical interfaces: transmitters, receivers, transceivers				
3G/HD/SD SDI, DVB-ASI, Telecom, PAL/SECAM, audio, RS-232/RS-422/GPI data optical single channel transmitters				
Single-mode single optical signal transmitters of SDI, DVB-ASI, HDSDI, PAL/SECAM video, up to sixteen audio channels, RS-232/RS-422/GPI data. FC/PC optical connectors (may be altered by request), LC connectors on SFP modules. Typical optical output power -3dBm, 0dBm and 2dBm are available by request. 0dBm CWDM lasers. 1310±20nm wavelength (1550±20nm by request). WDM compatibility (two signals 1310/1550nm over a single fiber), CWDM compatibility (up to sixteen signals over a single fiber). CWDM devices (-CW model index) use the 1270~1610nm band with 20nm increments. Transmitter input signal loss monitoring and indication with error detection. DDMI compliant SFP modules. Remote control and management (requires the CPU module in a rack) of optical network status is provided over the TCP/IP.				
SD/HD SDI, DVB-ASI video				
1. SDI/DVB-ASI and audio optical transmitter (<i>LC optical connector, 0~3dBm SFP module, PAL monitor for SDI input</i>)	POTM-3202SFP (CW##)*	1	1080,0 (1480,0)	* CW## – CWDM module index, ## – CWDM wavelength AA – 2 analog stereo pairs <i>or</i> AE – 1 analog stereo pair and 1 AES channel <i>or</i> EE – 2 AES channels
2. 3G/HDSDI/SDI/ASI optical transmitter (<i>LC optical connector, 0~3dBm SFP module, HDMI monitor with 8-ch VU OSD for SDI input, headphone 6.3mm jack</i>)	POTM-7203 (CW##)*	1	1590,0 (1890,0)	
3. HDSDI/SDI and analog/AES audio optical transmitters with auxiliary HDMI output (<i>SFP module, 0~3dBm optical power</i>)	POTM-7205-4 AA/AE/EE (CW##)*	1	2200,0 (2500,0)	
4. HDSDI/SDI and analog/AES audio optical transmitters with auxiliary HDMI output and audio remapper (<i>SFP module, 0~3dBm optical power</i>)	POTM-7205 (CW##)*	1	1770,0 (2070,0)	
5. 3G/HD/SD/SDI/ASI/Telecom optical transmitter (<i>LC optical connector, SFP module, 0~3dBm optical power, BER monitoring</i>)	POTM-7204	1	1460,0	
Audio (analog and AES/EBU) and RS-232 data				
1. four-channel audio optical transmitter with RS-232 data support	POTM-3214 (CW##)*- 4AA/AE/EE	1	1700,0 (2500,0)	
2. four-channel audio optical transmitter with RS-232/RS-422/GPI data support (<i>SFP module, LC optical connector</i>)	POTM-3214SFP (CW##)*- 4AA/AE/EE	1	1700,0 (2000,0)	
3. four-channel audio optical transmitter with bidirectional RS-232/RS422 data support (<i>dual-fiber, 1310nm laser [1550nm by request] or CWDM</i>)	POTM-3215D (CW##)*- 4AA/AE/EE	2	2000,0 (3000,0)	
4. four-channel audio optical transmitter with bidirectional RS-232/RS422 data support (<i>single-fiber, 1310/1550nm laser WDM</i>)	POTM-3215- 4AA/AE/EE	2	1900,0	

«PROFLEX» modular system

Description	Designation code	Rack slots occupied	Price	Notes
5. eight-channel audio optical transmitter with RS-232 data support	POTM-3214 (CW##)*- 8AA/AE/EE	1	2300,0 (3100,0)	* CW## – CWDM module index, ## – CWDM wavelength AA – 2 analog stereo pairs or AE – 1 analog stereo pair and 1 AES channel or EE – 2 AES channels
6. eight-channel audio optical transmitter with RS-232 data support	POTM-3214SFP (CW##)*- 8AA/AE/EE	1	2300,0 (2600,0)	
7. eight-channel audio optical transmitter with bidirectional RS-232/RS422 data support (<i>dual-fiber, 1310nm laser [1550nm by request] or CWDM</i>)	POTM-3215D (CW##)*- 8AA/AE/EE	2	2600,0 (3600,0)	
8. eight-channel audio optical transmitter with bidirectional RS-232/RS422 data support (<i>single-fiber, 1310/1550nm laser WDM</i>)	POTM-3215- 8AA/AE/EE	2	2500,0	
9. sixteen-channel audio optical transmitter with RS-232 data support	POTM-3214 (CW##)*- 16AAAA/AAAE/ AAEE/AEEE/EEEE	2	3100,0 (3400,0)	
10. sixteen-channel audio optical transmitter with RS-232/RS-422/GPI data support (<i>SFP module, LC optical connector</i>)	POTM-3214SFP (CW##)*- 16AAAA/AAAE/ AAEE/AEEE/EEEE	2	3100,0 (3300,0)	
11. sixteen-channel audio optical transmitter with bidirectional RS-232/RS422 data support (<i>dual-fiber, 1310nm laser [1550nm by request] or CWDM</i>)	POTM-3215D (CW##)*- 16AAAA/AAAE/ AAEE/AEEE/EEEE	2	3400,0 (4400,0)	AAAA – 8 analog stereo pairs or AAAE – 6 analog stereo pairs and 2 AES channel or AAEE – 4 analog stereo pairs and 4 AES channels or AEEE – 2 analog stereo pairs and 6 AES channels or EEEE – 8 AES channels
12. sixteen-channel audio optical transmitter with bidirectional RS-232/RS422 data support (<i>single-fiber, 1310/1550nm laser WDM</i>)	POTM-3215- 16AAAA/AAAE/ AAEE/AEEE/EEEE	2	3300,0	
PAL/SECAM/SDI multiformat video, analog/AES audio, RS-232 data, bidirectional RS-232/RS-422 data				
1. four-channel audio, PAL/SECAM/SDI video, RS-232/RS-422/GPI data optical transmitter (<i>SFP module, LC optical connector</i>)	POTM-3205SFP (CW##)- 4AA/AE/EE	1	2200,0 (2500,0)	
2. four-channel audio, PAL/SECAM/SDI video, bidirectional RS-232/RS-422 data optical transmitter (<i>dual-fiber, 1310nm laser [1550nm by request] or CWDM</i>)	POTM-3206D (CW##) -4AA/AE/EE	2	2500,0 (3600,0)	
3. four-channel audio, PAL/SECAM/SDI video, bidirectional RS-232/RS-422 data optical transmitter (<i>single-fiber, 1310/1550nm laser WDM</i>)	POTM-3206- 4AA/AE/EE	2	2600,0	
4. eight-channel audio, PAL/SECAM/SDI video, RS-232 data optical transmitter	POTM-3205SFP (CW##)- 8AA/AE/EE	1	2500,0 (2800,0)	
5. eight-channel audio, PAL/SECAM/SDI video, bidirectional RS-232/RS-422 data optical transmitter (<i>dual-fiber, 1310nm laser [1550nm by request] or CWDM</i>)	POTM-3206D (CW##) -8AA/AE/EE	2	2800,0 (3600,0)	
6. eight-channel audio, PAL/SECAM/SDI video, bidirectional RS-232/RS-422 data optical transmitter (<i>single-fiber, 1310/1550nm laser WDM</i>)	POTM-3206- 8AA/AE/EE	2	2900,0	

Description	Designation code	Rack slots occupied	Price	Notes	
SD/HD SDI, DVB-ASI, PAL/SECAM, audio and RS-232 data optical receivers					
Single-mode single optical signal receivers of SDI, DVB-ASI, HDSDI, PAL/SECAM video, up to sixteen audio channels, RS-232/RS-422 data. FC/PC optical connectors (may be altered by request). 1100~1650nm band optical sensitivity. Typical optical dynamic range from -3dBm to -25dBm. WDM compatibility (two signals 1310/1550nm over a single fiber), CWDM compatibility (up to sixteen signals over a single fiber). Received signal loss monitoring and indication with error detection. Remote control and management (requires the CPU module in a rack) of optical network status is provided over the TCP/IP.					
SD/HD SDI, DVB-ASI video					
1. SD SDI/ASI optical receiver (-26dBm)	PORC-3242SFP	1	1050,0		
2. SD SDI/ASI optical receiver (-32dBm)	PORC-3242SFPA	1	1470,0		
3. 3G/HD/SD SDI/ASI optical receiver (LC optical connector, SFP module, -24dBm sensitivity at 3GBps, HDMI aux output, headphone monitor output)	PORC-7223	1	1450,0		
4. 3G/HD/SD SDI/ASI optical receiver (LC optical connector, SFP module, -28dBm sensitivity at 3GBps, HDMI aux output, headphone monitor output)	PORC-7223A	1	1750,0		
5. HD/SDSDI and analog/AES audio, unidirectional RS-232 data optical receiver with auxiliary HDMI output (1.5Gbps, -3dBm to -24dBm dynamic range)	PORC-7225-4 AA/AE/EE	1	2200,0	AA – 2 analog stereo pairs <i>or</i> AE – 1 analog stereo pair and 1 AES channel <i>or</i> EE – 2 AES channels * CW## – CWDM module index, ## – CWDM wavelength	
6. HD/SDSDI and analog/AES audio, unidirectional RS-232 data optical receiver with auxiliary HDMI output (1.5Gbps, -3dBm to -24dBm dynamic range)	PORC-7225A-4 AA/AE/EE	1	2600,0		
7. HD/SDSDI/ASI optical receiver with audio remapper (1.5Gbps, -3dBm to -24dBm dynamic range)	PORC-7225	1	1670,0		
8. HD/SDSDI/ASI optical receiver with audio remapper (1.5Gbps, -9dBm to -29dBm dynamic range)	PORC-7225A	1	2070,0		
9. 3G/HD/SD SDI/ASI/Telecom optical receiver (LC optical connector, SFP module, -24dBm at 3GBps)	PORC-7224	1	1375,0		
10. 3G/HD/SD SDI/ASI/Telecom optical receiver (LC optical connector, SFP module, -24dBm at 3GBps, bitrate detection, BER monitoring)	PORC-7224A	1	1775,0		
Audio (analog and AES/EBU) and RS-232 data					
1. four-channel audio (analog and AES/EBU) with RS-232 data	PORC-3234-4AA/AE/EE	1	1400,0		
2. four-channel audio (analog and AES/EBU) with RS-232/RS-422/GPI data (SFP module, LC optical connector, -24dBm optical sensitivity at 1.5Gbps)	PORC-3234SFP-4AA/AE/EE	1	1500,0		
3. four-channel audio (analog and AES/EBU) with RS-232 data	PORC-3234SFPA-4AA/AE/EE	1	1900,0		
4. four-channel audio (analog and AES/EBU) with bidirectional RS-232/RS-422data (dual-fiber, 1310nm /1550nm request/ or CWDM)	PORC-3235D (CW##)*-4AA/AE/EE	2	1700,0 (2500,0)		
5. four-channel audio (analog and AES/EBU) with bidirectional RS-232/RS-422data (WDM single-fiber, 1310/1550nm)	PORC-3235-4AA/AE/EE	2	1600,0		
6. eight-channel audio (analog and AES/EBU) with RS-232 data	PORC-3234-8AA/AE/EE	1	2000,0		
7. eight-channel audio (analog and AES/EBU) with RS-232/RS-422/GPI data (SFP module, LC optical connector, -3dBm to -24dBm dynamic range)	PORC-3234SFP-8AA/AE/EE	1	2100,0		
8. eight-channel audio (analog and AES/EBU) with RS-232/RS-422/GPI data (SFP module, LC optical connector, -9dBm to -29dBm dynamic range)	PORC-3234SFPA-8AA/AE/EE	1	2500,0	AA – 4 analog stereo pairs <i>or</i> AE – 2 analog stereo pairs and 2 AES channels <i>or</i> EE – 4 AES channels	
9. eight-channel audio (analog and AES/EBU) with bidirectional RS-232/RS-422data (dual-fiber, 1310nm /1550nm request/ or CWDM)	PORC-3235D (CW##)*-8AA/AE/EE	2	2300,0 (3100,0)		
10. eight-channel audio (analog and AES/EBU) with bidirectional RS-232/RS-422data (WDM single-fiber, 1310/1550nm)	PORC-3235-8AA/AE/EE	2	2200,0		

«PROFLEX» modular system

Description	Designation code	Rack slots occupied	Price	Notes
11. sixteen-channel audio (analog and AES/EBU) with RS-232 data	PORC-3234-16AAAA/AAAE/AAEE/AEEE/EEEE	2	2800,0	AAAA – 8 analog stereo pairs or AA AE – 6 analog stereo pairs and 2 AES channel or AA EE – 4 analog stereo pairs and 4 AES channels or AEEE – 2 analog stereo pairs and 6 AES channels or EEEE – 8 AES channels
12. sixteen-channel audio (analog and AES/EBU) with RS-232/RS-422/GPI data (SFP module, LC optical connector, -24dBm optical sensitivity at 1.5Gbps)	PORC-3234SFP-16AAAA/AAAE/AAEE/AEEE/EEEE	2	2900,0	
13. sixteen-channel audio (analog and AES/EBU) with RS-232/RS-422/GPI data (SFP module, LC optical connector, -29dBm optical sensitivity at 1.5Gbps)	PORC-3234SFPA-16AAAA/AAAE/AAEE/AEEE/EEEE	2	3300,0	
14. sixteen-channel audio (analog and AES/EBU) with bidirectional RS-232/RS-422 data (dual-fiber, 1310nm /1550nm request/ or CWDM)	PORC-3235D (CW##)* -16AAAA/AAAE/AAEE/AEEE/EEEE	2	3100,0 (3900,0)	
15. sixteen-channel audio (analog and AES/EBU) with bidirectional RS-232/RS-422 data (WDM single-fiber, 1310/1550nm)	PORC-3235-16AAAA/AAAE/AAEE/AEEE/EEEE	2	3000,0	
SDIembedded with synchronization to REF				
1. SDIembedded with synchronization to REF	PORC-3227	1	1720,0	AA – 2 analog stereo pairs or AE – 1 analog stereo pair and 1 AES channel or EE – 2 AES channels * CW## – CWDM module index, ## – CWDM wavelength
2. SDIembedded with synchronization to REF, RS-232 data support, auxiliary audio output	PORC-3228 AA/AE/EE	2	1980,0	
3. SDIembedded with synchronization to REF, RS-232 data support, auxiliary audio input	PORC-3229 AA/AE/EE	2	1980,0	
4. SDIembedded with synchronization to REF, bidirectional RS-232/RS-422 data support (dual-fiber, 1310nm /1550nm request/ or CWDM)	PORC-3230D (CW##)*	2	2290,0 (2890,0)	
5. SDIembedded with synchronization to REF, bidirectional RS-232/RS-422 data support (WDM single-fiber, 1310/1550nm, -20~-3dBm optical dynamic range)	PORC-3230	2	2090,0	
6. SDIembedded with synchronization to REF, bidirectional RS-232/RS-422 data support, auxiliary audio output (dual-fiber, 1310nm / 1550nm request/ or CWDM)	PORC-3231D (CW##)* AA/AE/EE	2	2480,0 (2890,0)	
7. SDIembedded with synchronization to REF, bidirectional RS-232/RS-422 data support, auxiliary audio output (WDM single-fiber, 1310/1550nm, -20~-3dBm optical dynamic range)	PORC-3231 AA/AE/EE	2	2280,0	
8. SDIembedded with synchronization to REF, bidirectional RS-232/RS-422 data support, auxiliary audio input (dual-fiber, 1310nm /1550nm request/ or CWDM)	PORC-3232D (CW##)* AA/AE/EE	2	2480,0 (2890,0)	
9. SDIembedded with synchronization to REF, bidirectional RS-232/RS-422 data support, auxiliary audio input (WDM single-fiber, 1310/1550nm, -20~-3dBm optical dynamic range)	PORC-3232 AA/AE/EE	2	2280,0	

Description	Designation code	Rack slots occupied	Price	Notes
10. HD/SD SDI embedded with synchronization to REF and auxiliary HDMI output (<i>SFP module, -24dBm@1.5Gb</i>)	PORC-7227	1	2600,0	AA – 2 analog stereo pairs <i>or</i> AE – 1 analog stereo pair and 1 AES channel <i>or</i> EE – 2 AES channels
11. HD/SD SDI embedded with synchronization to REF and auxiliary HDMI output (<i>SFP module, -29dBm@1.5Gb</i>)	PORC-7227A	1	3000,0	
12. HD/SD SDI embedded with synchronization to REF, analog/AES audio output and auxiliary HDMI output (<i>SFP module, -24dBm@1.5Gb</i>)	PORC-7228-4 AA/AE/EE	1	2800,0	
13. HD/SD SDI embedded with synchronization to REF, analog/AES audio output and auxiliary HDMI output (<i>SFP module, -29dBm@1.5Gb</i>)	PORC-7228A-4 AA/AE/EE	1	3200,0	
14. HD/SD SDI embedded with synchronization to REF, analog/AES audio input and auxiliary HDMI output (<i>SFP module, -24dBm@1.5Gb</i>)	PORC-7229-4 AA/AE/EE	1	2800,0	
15. HD/SD SDI embedded with synchronization to REF, analog/AES audio input and auxiliary HDMI output (<i>SFP module, -29dBm@1.5Gb</i>)	PORC-7229A-4 AA/AE/EE	1	3200,0	
SDI/PAL/SECAM multiformat video, audio, unidirectional RS-232, bidirectional RS-232/RS-422 data				
1. four-channel audio (analog and AES/EBU), PAL/SECAM/SDI, RS-232/RS-422/GPI data (<i>SFP module, LC optical connector, -24dBm optical sensitivity at 1.5Gbps</i>)	PORC-3225SFP-4AA/AE/EE	1	1700,0	AA – 4 analog stereo pairs <i>or</i> AE – 2 analog stereo pairs and 2 AES channels <i>or</i> EE – 4 AES channels
2. four-channel audio (analog and AES/EBU), PAL/SECAM/SDI, RS-232 data (<i>SFP module, LC optical connector, -29dBm optical sensitivity at 1.5Gbps</i>)	PORC-3225SFPA-4AA/AE/EE	1	2100,0	
3. four-channel audio (analog and AES/EBU), PAL/SECAM/SDI, bidirectional RS-232/RS-422 data (<i>dual-fiber, 1310nm /1550nm request/ or CWDM</i>)	PORC-3226D (CW##)*-4AA/AE/EE	2	2000,0 (2800,0)	
4. four-channel audio (analog and AES/EBU), PAL/SECAM/SDI, bidirectional RS-232/RS-422 data (<i>WDM single-fiber, 1310/1550nm, -20~-3dBm optical dynamic range</i>)	PORC-3226-4AA/AE/EE	2	2100,0	
5. eight-channel audio (analog and AES/EBU), PAL/SECAM/SDI, RS-232 data (<i>SFP module, LC optical connector, -24dBm optical sensitivity at 1.5Gbps</i>)	PORC-3225SFP-8AA/AE/EE	1	2300,0	
6. eight-channel audio (analog and AES/EBU), PAL/SECAM/SDI, RS-232 data (<i>SFP module, LC optical connector, -29dBm optical sensitivity at 1.5Gbps</i>)	PORC-3225SFPA-8AA/AE/EE	1	2600,0	
7. eight-channel audio (analog and AES/EBU), PAL/SECAM/SDI, bidirectional RS-232/RS-422 data (<i>dual-fiber, 1310nm /1550nm request/ or CWDM</i>)	PORC-3226D (CW##)*-8AA/AE/EE	2	2600,0 (3400,0)	
8. eight-channel audio (analog and AES/EBU), PAL/SECAM/SDI, bidirectional RS-232/RS-422 data (<i>WDM single-fiber, 1310/1550nm, -20~-3dBm optical dynamic range</i>)	PORC-3226-8AA/AE/EE	2	2700,0	

Description	Designation code	Rack slots occupied	Price	Notes	
SDI/DVB-ASI optical transmitters and receivers with the electrical multiplexing (TDM)					
Single-mode single optical signal receivers and transmitters of up to eight time-division-multiplexed (TDM) streams of SDI/DVB-ASI. Up to 16 SDI/DVB-ASI streams in WDM mode, up to 128 streams in CWDM mode.					
<ul style="list-style-type: none"> Transmitters: Typical optical output power is 0dBm. 1310±20nm wavelength (1550±20nm by request). WDM compatibility (two optical signals 1310/1550nm over a single fiber), CWDM compatibility (up to sixteen optical signals over a single fiber, -CW model index). Built-in test signal generator (color bars, B/W, PATALOGIC). Receivers: 1100~1650nm band optical sensitivity. Typical optical dynamic range from -3dBm to -25dBm. WDM compatibility (two signals 1310/1550nm over a single fiber), CWDM compatibility (up to sixteen signals over a single fiber). 					
Monitor output for receivers and transmitters. Unidirectional RS-422 data support (<i>POTM-3252/PORC-3272 only</i>). В 8-ми канальной системе передачи используется стандарт пакетирования STM16/SDH (ITU-Rec G707 compliant) packetization for eight-channel transmitters and receivers. Loss of any number of SDI/DVB-ASI input streams does not affect the optical system operation. Optical change-over facility provisioned (<i>POTM-3252/PORC-3272 only</i>): two optical outputs on a transmitter and two optical inputs on a receiver, the change-over occurs on optical signal loss or if errors in the received signal are detected.					
LC optical connectors (<i>POTM-3252/PORC-3272</i>), FC optical connectors (<i>POTM-3251/PORC-3271</i>).					
DDMI compliant SFP modules.					
1. four-channel TDM SDI/ASI optical transmitter (<i>SFP module, 0dBm optical power</i>)	POTM-3251SFP (CW##)	1	3800,0 (4600,0)		
4. four-channel TDD SDI/ASI optical receiver (<i>SFP module, -24dBm</i>)	PORC-3271SFP	1	3600,0		
2. four-channel TDD SDI/ASI optical receiver (<i>SFP module, -29dBm optical sensitivity</i>)	PORC-3271SFPA	1	3900,0		
5. eight-channel STM16/SDH compliant SDI/ASI optical transmitter (<i>SFP module, 0dBm optical power</i>)	POTM-3252 (CW##)	2	5500,0 (6120,0)		
6. eight-channel STM16/SDH compliant SDI/ASI optical receiver (<i>SFP module, -24dBm optical sensitivity</i>)	PORC-3272	2	5350,0		
6. eight-channel STM16/SDH compliant SDI/ASI optical receiver (<i>SFP module, -29dBm optical sensitivity</i>)	PORC-3272A	2	5650,0		
E1 multichannel optical transceivers					
Bidirectional communication of up to eight E1 streams over an optical fiber. A pair of POTR-3207-X(D) provide the full duplex link over one or two (modification index "D") optical fibers. Local and remote (Ethernet/RS-485, proprietary protocol) controls and management. Optical TX power: -3dBm; RX sensitivity: -25dBm (dual fiber configuration), -20dBm (single-fiber).					
1. E1 optical transceiver (<i>dual-fiber, 1310nm laser / 1550nm by request/; two, four or eight E1 streams</i>)	POTR-3207D-2 POTR-3207D-4 POTR-3207D-8	1 2 2	900,0 980,0 1350,0	* CW## – CWDM module index, ## – CWDM wavelength	
2. E1 optical transceiver (<i>single-fiber, WDM 1310/1550nm laser; two, four or eight E1 streams</i>)	POTR-3207-2 POTR-3207-4 POTR-3207-8	1 2 2	700,0 780,0 1180,0		
3. E1 optical transceiver (<i>dual-fiber, CWDM laser; two, four or eight E1 streams</i>)	POTR-3207D-CW#-2 POTR-3207D-CW#-4 POTR-3207D-CW#-8	1 2 2	1500,0 1580,0 1980,0		
FastETHERNET optical transceivers					
Optical transceivers provide the 10/100/1000BaseT FastEthernet bidirectional communication over an optical fiber. A pair of POTR-3209-(D) provide the full duplex link over one or two (modification index "D") optical fibers. Local (from module's frontal panel) and remote (Ethernet/RS-485, proprietary protocol) controls and management. DDMI-compliant SFP modules with real-time optical power monitoring and wavelength reporting. LC type optical connectors. Two 10/100/1000BaseT electrical ports with "two-port hub" capability.					
1. 10/100/1000Base-T Ethernet optical transceiver (<i>single-fiber; no SFP module!</i>)	POTR-7209A	1	450,0		A laser wavelength is denoted by two digits in a model index: 1310nm – "31" 1550nm – "55"
2. 10/100/1000Base-T Ethernet optical transceiver (<i>single-fiber; -7~-1dBm optical power, -23~-3dBm optical input dynamic range, 1310/1550nm wavelength, ≤20km fiber length</i>)	POTR-7209-31	1	600,0		
	POTR-7209-55	1	600,0		
3. 10/100/1000Base-T Ethernet optical transceiver (<i>single-fiber; -2~+3dBm optical power, -23~-3dBm optical input dynamic range, 1490/1550nm wavelength, 20~80km fiber length</i>)	POTR-7209-L-49	1	750,0		
	POTR-7209-L-55	1	750,0		
4. 10/100/1000Base-T Ethernet optical transceiver (<i>dual-fiber; -9~-3dBm optical power, -23~-3dBm optical input dynamic range, 1310nm wavelength, ≤20km fiber length</i>)	POTR-7209D-31	1	580,0		

5. 10/100/1000Base-T Ethernet optical transceiver (dual-fiber; -2~+3dBm optical power, -24~-3dBm optical input dynamic range, 1550nm wavelength, 20~80km fiber length)	POTR-7209D-L-55	1	720,0	* CW## – CWDM module index, ## – CWDM wavelength
6. 10/100/1000Base-T Ethernet optical transceiver (dual-fiber; ; -5~0dBm optical power, -24~-3dBm optical input dynamic range, any CWDM wavelength, ≤20km fiber length)	POTR-7209D-CW##	1	750,0	
7. 10/100/1000Base-T Ethernet optical transceiver (dual-fiber; +1~+5dBm optical power, -24~-3dBm optical input dynamic range, any CWDM wavelength, 20~80km fiber length)	POTR-7209D-L-CW##	1	830,0	

SFP modules with less than 24dBm budget – by request

«PROFLEX» modular system

ETHERNET optical transceivers/switches

Four-port Ethernet 10/100/1000 Mbps switch/optical transceiver with two optical and two electrical interfaces supports QoS and IPv6. May be an optical bridge between two Ethernet segments. A pair of transceivers can build the duplex optical link over one or two optical fibers. Full duplex at 10/100/1000 Mbps, half duplex at 10/100 Mbps auto negotiation; low latency routing with 1024 MAC-address table; network activity and speed LED indicators. SFP modules with DDMI allow for laser wavelength, output power and receiver's input optical power diagnostics. All the operational parameters are available at the frontal panel and over the network for remote monitoring (requires a rack CPU).
SFP slots accept Mini GBIC 1000Base-x / 100Base-Fx. LC type optical connectors.

1. four-port 10/100/1000Mbit Ethernet switch/optical transceiver with electrical and optical interfaces (no SFP module!)	PETS-7210A	1	550,0	* CW## – CWDM module index, ## – CWDM wavelength
2. four-port 10/100/1000Mbit Ethernet switch/optical transceiver with electrical and optical interfaces (two SFP modules, each optical channel over a single fiber, 1310/1550nm wavelengths, -7~-1dBm optical power, -23~-3dBm optical dynamic range, ≤20km fiber length)	PETS-7210-31	1	840,0	
	PETS-7210-55	1	840,0	
3. four-port 10/100/1000Mbit Ethernet switch/optical transceiver with electrical and optical interfaces (two SFP modules, each optical channel over a single fiber, 1490/1550nm wavelengths, -2~+3dBm optical power, -24~-3dBm optical dynamic range, 20~80km fiber length)	PETS-7210-L-49	1	1140,0	
	PETS-7210-L-55	1	1140,0	
4. four-port 10/100/1000Mbit Ethernet switch/optical transceiver with electrical and optical interfaces (one SFP module, single fiber, 1310/1550nm wavelengths, -7~-1dBm optical power, -23~-3dBm optical dynamic range, ≤20km fiber length)	PETS-7210S-31	1	680,0	
	PETS-7210S-55	1	680,0	
5. four-port 10/100/1000Mbit Ethernet switch/optical transceiver with electrical and optical interfaces (one SFP module, single fiber, 1490/1550nm wavelengths, -2~+3dBm optical power, -24~-3dBm optical dynamic range, 20~80km fiber length)	PETS-7210S-L-49	1	845,0	
	PETS-7210S-L-55	1	845,0	
6. four-port 10/100/1000Mbit Ethernet switch/optical transceiver with electrical and optical interfaces (two SFP modules, each optical channel over a single fiber, 1310nm wavelength, -9~-3dBm optical power, -24~-3dBm optical dynamic range, ≤20km fiber length)	PETS-7210D-31	1	750,0	
7. four-port 10/100/1000Mbit Ethernet switch/optical transceiver with electrical and optical interfaces (two SFP modules, each optical channel over a single fiber, 1310/1550nm wavelengths, -2~+3dBm optical power, -24~-3dBm optical dynamic range, 20~80km fiber length)	PETS-7210D-L-55	1	1150,0	
8. four-port 10/100/1000Mbit Ethernet switch/optical transceiver with electrical and optical interfaces (one SFP module, dual fiber, 1310nm wavelength, -9~-3dBm optical power, -24~-3dBm optical dynamic range, ≤20km fiber length)	PETS-7210DS-31	1	650,0	

9. four-port 10/100/1000Mbit Ethernet switch/optical transceiver with electrical and optical interfaces (<i>one SFP module, dual fiber, 1550nm wavelength, -7~-1dBm optical power, -23~-3dBm optical dynamic range, 20~80km fiber length</i>)	PETS-7210DS-L-55	1	830,0
10. four-port 10/100/1000Mbit Ethernet switch/optical transceiver with electrical and optical interfaces (<i>two SFP modules, each optical channel over two fibers, any CWDM wavelength, -2~+3dBm optical power, -24~-3dBm optical dynamic range, ≤20km fiber length</i>)	PETS-7210D-CW##	1	1030,0
11. four-port 10/100/1000Mbit Ethernet switch/optical transceiver with electrical and optical interfaces (<i>two SFP modules, each optical channel over a single fiber, 1310/1550nm wavelengths, -7~-1dBm optical power, -23~-3dBm optical dynamic range, ≤20km fiber length</i>)	PETS-7210D-L-CW##	1	1230,0
12. four-port 10/100/1000Mbit Ethernet switch/optical transceiver with electrical and optical interfaces (<i>one SFP module, dual fiber, any CWDM wavelength, -5~+0dBm optical power, -24~-3dBm optical dynamic range, ≤20km fiber length</i>)	PETS-7210DS-CW##	1	795,0
13. four-port 10/100/1000Mbit Ethernet switch/optical transceiver with electrical and optical interfaces (<i>one SFP module, dual fiber, any CWDM wavelength, -2~+3dBm optical power, -24~-3dBm optical dynamic range, 20~80km fiber length</i>)	PETS-7210DS-L-CW##	1	895,0

Description	Designation code	Rack slots occupied	Price	Notes
Optical transponders - regenerators and wavelength converters				
Optical transponders - regenerators and wavelength converters are used to amplify and restore an optical signal received over some lengthy fiber link. Optionally it is possible to change the carrier wavelength during the amplification/restoration. Input wavelengths: 1100~1650nm. Output wavelength is either 1310nm or 1550nm or one of CWDM wavelengths. The SDI/DVB-ASI (270Mb/s) / PTRS-3262 series/ or HDSDI (1.485Gb/s), SDI/DVB-ASI (270Mb/s) /PTRS-7262 series/ are supported. RX sensitivity: -31dBm /PTRS-3262/ and -27dBm /PTRS-7262/. Payload signal standard autodetection (HDSDI/SDI/ASI). PAL/NTSC monitor output for the SDI input signal. Two BNC outputs of reclocked/resaped payload signal. DDMI compliant SFP modules.				
1. SDI/ASI optical regenerator/wavelength converter (<i>SFP module, TX power 0dBm, RX sens -24dBm</i>)	PTRS-3262SFP-## (CW##)	1	1300,0 (1600,0)	
2. SDI/ASI optical regenerator/wavelength converter (<i>SFP module, TX power 0dBm, RX sensitivity: -9~ -32dBm</i>)	PTRS-3262SFPA-## (CW##)	1	1500,0 (1800,0)	
3. 3G/HD/SD SDI and DVB-ASI optical regenerator/wavelength converter (<i>SFP module, TX power 0dBm, RX sensitivity: -3~ -20dBm, HDMI aux output</i>)	PTRS-7263-## (CW##)	1	2110,0 (2260,0)	
4. 3G/HD/SD SDI and DVB-ASI optical regenerator/wavelength converter (<i>SFP module, TX power 0dBm, RX sensitivity: -9~ -28dBm, HDMI aux output</i>)	PTRS-7263A-CW##	1	2560,0	
5. 3G/HD/SD SDI/DVB-ASI/TDM/Telecom optical regenerator/wavelength converter (<i>SFP module, TX power 0dBm, RX sensitivity: -3~ -20dBm</i>)	PTRS-7264-## (CW##)	1	1500,0 (1800,0)	
6. 3G/HD/SD SDI/DVB-ASI/TDM/Telecom optical regenerator/wavelength converter (<i>SFP module, TX power 0dBm, RX sensitivity: -9~ -28dBm</i>)	PTRS-7264A-CW##	1	2100,0	
Optical changeovers				
Optical changeovers are designed to protect 1270+1610nm band optical fiber link. Continuously measure the optical power on two inputs and automatically switch the optical output to the stand-by input if the main input optical signal is lost or falls below some power level. The latching optical relay retains it's state during the power outages. Automatic and/or manual/GPI/RS-485/Ethernet changeover/changeback control (<i>requires a CPU in a rack</i>). CWDM compatible.				
1. optical automatic changeover	PCOO-3027	2	1180,0	
2. optical manual/GPI-controlled changeover	PCOO-3027GPI	2	600,0	
WDM optical multiplexers/demultiplexers (1310/1550nm)				
Allow for the two-signal, possibly bidirectional, optical fiber communication. The WDM wavelength: 1310±20nm and 1550±20nm. Optical multiplexers/demultiplexers are passive devices. The intended transmitters should be fitted with the WDM-compatible lasers, 1310nm is used in one direction, 1550nm – in the other. When in the demultiplexing mode, devices provide the spectral selectivity for the intended receivers.				
1. WDM optical multiplexer/demultiplexer	PWOM-3210		290,0	
2. 1U mounting plate (<i>up to three WDM devices</i>)	PM-021		20,0	
CWDM optical multiplexers/demultiplexers (1270~1610nm)				
Allow for the sixteen-signal, possibly bidirectional, optical fiber communication. The CWDM wavelength: 1270±2nm, 1290±2nm, 1310±2nm, 1330±2nm, 1350±2nm, 1370±2nm, 1390±2nm, 1410±2nm, 1430±2nm, 1450±2nm, 1470±2nm, 1490±2nm, 1510±2nm, 1530±2nm, 1550±2nm, 1570±2nm, 1590±2nm and 1610±2nm. Optical multiplexers/demultiplexers are passive devices. The intended transmitters should be fitted with the CWDM-compatible DBF lasers. When in the demultiplexing mode, devices provide the spectral selectivity for the intended receivers. Optical multiplexers/demultiplexers with the 1470nm and 1550nm boundary wavelengths are fitted with the broadband (1260~1360nm) expansion input. An intended connection is the 4-channel CWDM multiplexer's output with the 1270nm boundary wavelength or 1310nm optical output of any device, the emissions in the two parts of spectrum (below and above the boundary wavelength) will be combined.				
1. CWDM optical multiplexer/demultiplexer (<i>4-channel</i>)	PCOM-3211-4-##		1190,0	## – boundary wavelength (1270, 1350, 1390, 1470, 1550nm)
2. CWDM optical multiplexer/demultiplexer (<i>8-channel</i>)	PCOM-3211-8-##		2280,0	
3. CWDM optical multiplexer/demultiplexer (<i>16-channel</i>)	PCOM-3211-16-1270		4440,0	
4. 1U mounting plate (<i>up to three CWDM devices</i>)	PM-021		20,0	

Optical splitters and summators

Optical splitter/combiner is a passive device designed to split an input optical signal into two output signals with certain division ratio (from 10%by90% to 50%by50%, available by request), also the combiner function is available when two optical signals are combined onto one output.

1. optical splitter/summator	POAS-3212		290,0	
2. 1U mounting plate (<i>up to three devices</i>)	PM-021		20,0	

Optical attenuators

1. LC-type optical attenuator:	-7dB	AttFMLC-LC-A-7dB		40,0
	-10dB	AttFMLC-LC-A-10dB		40,0
	-15dB	AttFMLC-LC-A-15dB		40,0

Description	Designation code	Price	Notes
Cable kits for optical transmitters and receivers ^{*)}			
1. 1U rack panel with "female" XLR connectors and 1m patch cord (DB15 connector) for <i>this number</i> of optical transmitters: – <i>one</i> – <i>two</i> – <i>four</i>	PPT-4F PPT-8F PPT-16F	102,0 140,0 196,0	
2. 1U rack panel with "male" XLR connectors and 1m patch cord (DB15 connector) for <i>this number</i> of optical receivers: – <i>one</i> – <i>two</i> – <i>four</i>	PPR-4M PPR-8M PPR-16M	102,0 140,0 196,0	
3. 1U rack panel with "male" and "female" XLR connectors and 1m patch cord (DB15 connector) for <i>this number</i> of optical receivers: – 1 transmitter and 1 receiver – 2 transmitters and 2 receivers	PPTR-4F4M PPTR-8F8M	142,0 196,0	
4. 1U rack panel with "female" XLR connectors and 1m patch cord (DB26 connector) for <i>this number</i> of optical transmitters ("8", "-16" models): – one ("8" model) – two ("8" model) or one ("-16" model)	PTP-8F PTP-16F	140,0 196,0	
5. 1U rack panel with "male" XLR connectors and 1m patch cord (DB26 connector) for <i>this number</i> of optical receivers ("8", "-16" models): – one ("8" model) – two ("8" model) or one ("-16" model)	PTP-8M PTP-16M	140,0 196,0	
6. 1U rack panel with "male" and "female" XLR connectors and 1m patch cord (DB26 connector) for optical receivers and transmitters ("8" models):	PTRD-8F8M	196,0	
7. Optical patch-cords (<i>user-selectable fiber length and connector types</i>)	Call us for more info	Call us for quotation	
^{*)} Other modifications of 1U XLR patch-panels are available for "PROFIT"’s transmitters and receivers			Please, refer to Anex#1

Description	Designation code	Price	Notes	
PROFLEX™ rack built-in CPU modules				
1. CPU module for 3U PROFLEX™ racks (<i>ETHERNET, GPI and REF input</i>)	PFPC-3353	550,0	<i>Takes the 1st slot in a 3U rack</i>	
2. CPU module for 3U PROFLEX™ racks (<i>RS-232/RS-485/ETHERNET, GPIoutput and REF input</i>)	PFPC-3022EV	550,0		
3. CPU module for 1U PROFLEX™ racks (<i>RS-232/RS-485, GPI and REF input</i>)	PFPC-3024	250,0	<i>In a separate rack compartment</i>	
4. CPU module for 1U PROFLEX™ racks (<i>with temperature sensor, RS-232/RS-485, REF input and 20meters cable</i>)	PFPC-3024T	320,0		
5. CPU module for 1U PROFLEX™ racks (<i>ETHERNET, REF input</i>)	PFPC-3024EV	330,0		
6. CPU module for 1U PROFLEX™ racks (<i>with temperature sensor, ETHERNET, REF input and 20meters cable</i>)	PFPC-3024EVT	390,0		
7. GPI modem (<i>RS-232 connectivity, GPI, GPO; cascable</i>)	PPIC-3351	350,0	<i>Takes one slot in a rack</i>	
"PROFLEX" racks (with backplane and 187~242V AC PSU)				
1. 1U "PROFLEX" rack (<i>four slots</i>)	PFR-1UM	350,0	<i>To order the rack with two PSUs please add the "D" index (for example: PFR-1UMD; PFR-3UND; PFR-3UND-DC)</i>	
2. 1U "PROFLEX" rack (<i>four slots</i>)	PFR-1UN	350,0		
3. 3U "PROFLEX" rack (<i>sixteen slots</i>)	PFR-3UN	720,0		
"PROFLEX" racks (with backplane and 36~72 PSU)				
1. 3U "PROFLEX" rack (<i>sixteen slots</i>)	PRF-3UN-DC	720,0		
Optional stand-by power supply units				
1. a stand-by power supply unit (<i>for PFR-1UM rack</i>)		150,0		
2. a stand-by power supply unit (<i>for PFR-1UN rack</i>)		160,0		
3. a stand-by power supply unit (<i>for PFR-3UM rack</i>)		250,0		
4. a stand-by power supply unit (<i>for PFR-3UN rack</i>)		350,0		
5. a stand-by power supply unit (<i>for PFR-3UN-DC rack</i>)		350,0		
Software packages				
1. Software package to manage the PROFLEX™ system modules "PROFLEX" (<i>IBM PC, MS Windows, ETHERNET connectivity</i>)		500,0	Proflex2.x.x	

Optical reception/transmission mobile rigs

#	Description	Designation code	Price
POMS-XX series optical reception/transmission mobile rigs			
<p>POMS-XX series optical reception/transmission mobile rigs are intended to be an interface between a TV mobile unit and an optical fiber access point. A single-fiber cabling is supported. The mobile rig is based on PROFITT's «PROFLEX™» family of modules.</p> <p>Features:</p> <ul style="list-style-type: none"> • Transmission/reception of SD/HD SDI embedded, DVB-ASI, SDI/PAL/SECAM video, analog and AES/EBU audio, RS-232/RS-422 and ETHERNET data streams • Up to sixteen optical wavelengths • The 1U «PROFLEX™» rack hosts all transmission/reception modules • all functions are monitorable remotely • up to 32 ports 10/100/1000Base-T switch capability • Front-side accessible patch-panels for external cabling • 4U or 6U case • 300meters single-fiber optical cable optionally supplied • User-selectable «PROFLEX™» functional modules and configurations 			
1.	mobile rig consisting of:	POMS-200	7700,0
	• the 4U case with PPS-1A and PPS-2 patch-panels	SKB-4U	
	• 1U "PROFLEX" rack with main and stand-by power supply units	PFR-1UMD	
	• four-channel audio, PAL/SECAM/SDI video, RS-232 data optical transmitter	POTM-3205SFPCW1470-4AA	
	• four-channel audio (analog and AES/EBU), PAL/SECAM/SDI, RS-232 data optical receiver	PORC-3225SFP-4AA	
	• 10/100/1000Base-T Ethernet optical transceiver	POTR-7209D-CW1530	
	• CPU module for 1U PROFLEX™ racks (<i>RS-232/RS-485, GPI and REF input</i>)	PFPC-3024E	
	• 4-wavelengths CWDM optical multiplexer/demultiplexer	PCOM-3211-4-1470	
	• 16-port Ethernet switch		
2.	mobile rig consisting of:	POMS-201	11300,0
	• the 4U case with PPS-1A and PPS-2 patch-panels	SKB-4U	
	• 1U "PROFLEX" rack with main and stand-by power supply units	PFR-1UMD	
	• 4-channel TDM SDI/ASI optical transmitter	POTM-3251SFP	
	• four-channel audio, PAL/SECAM/SDI video, RS-232 data optical transmitter	POTM-3205SFP-4AA	
	• four-channel audio (analog and AES/EBU), PAL/SECAM/SDI, RS-232 data optical receiver	PORC-3225SFP-4AA	
	• 10/100/1000Base-T Ethernet optical transceiver	POTR-7209D-CW1530	
	• CPU module for 1U PROFLEX™ racks (<i>RS-232/RS-485, GPI and REF input</i>)	PFPC-3024E	
	• 4-wavelengths CWDM optical multiplexer/demultiplexer	PCOM-3211-4-1470	
	• 16-port Ethernet switch		
3.	mobile rig consisting of:	POMS-202	8880,0
	• the 4U case with PPS-1A and PPS-2 patch-panels	SKB-4U	
	• 1U "PROFLEX" rack with main and stand-by power supply units	PFR-1UMD	
	• four-channel audio (analog and AES/EBU), PAL/SECAM/SDI, bidirectional RS-232/RS-422 data	PORC-3226DCW1490-4AA	
	• 10/100/1000Base-T Ethernet optical transceiver	POTR-7209D-CW1530	
	• four-channel audio, PAL/SECAM/SDI video, RS-232 data optical transmitter	POTM-3205SFP-4AA	
	• CPU module for 1U PROFLEX™ racks (<i>RS-232/RS-485, GPI and REF input</i>)	PFPC-3024E	
	• 4-wavelengths CWDM optical multiplexer/demultiplexer	PCOM-3211-4-1470	
	• 16-port Ethernet switch		

#	Description	Designation code	Price
4.	mobile rig consisting of:	POMS-203	6500,0
	• the 4U case with PPS-1A and PPS-2 patch-panels	SKB-4U	
	• 1U "PROFLEX" rack with main and stand-by power supply units	PFR-1UMD	
	• SDI/DVB-ASI and audio optical transmitter (<i>PAL monitor for SDI input</i>)	POTM-3202SFP-CW1470	
	• SDI/ASI optical receiver	PORC-3242SFP	
	• 10/100/1000Base-T Ethernet optical transceiver	POTR-7209D-CW1530	
	• CPU module for 1U PROFLEX™ racks (<i>RS-232/RS-485, GPI and REF input</i>)	PFPC-3024E	
	• 4-wavelengths CWDM optical multiplexer/demultiplexer	PCOM-3211-4-1470	
	• 16-port Ethernet switch		

*Price list / Annex # 1/***(2012-02-01)****The prices are shown in USD, exclusive VAT, EXW Saint-Petersburg Russia (Incoterms® 2010)**

Patch-panels for the "PROFIT" equipment				
<i>Patch-panels for the PROFITT's equipment audio interconnects. XLR connectors on panels, DB-type connectors on 1 meter cable pieces. The number and the type of connectors installed according to the panel's intended usage.</i>				
Equipment being connected	No. of devices connected	Patch-panel model index	Price	Notes
Distribution amplifiers and changeovers				
PAD-1062-7D, PDDA-3106-7DB, PDDA-3106-9UB, PPAD-3362-7D	1	PPA-1F7M	140	
	2	PPA-2F14M	196	
	4	PPA-4F12M	196	<i>3outputs</i>
PVD-1061A-2, PPVD-3361A-2 PCOV-3026-2, PCOV-3326-2, PCOV-7326-2	1	PPA-4F2M	120	
	2	PPA-8F4M	170	
PPAD-33623D	1	PPA-2F6M	140	
	2	PPA-4F12M-1	196	
PCOA-3105	1	PPA-2F3M	120	
	2	PPA-4F6M	170	
	3	PPA-6F9M	196	
Audio routers				
PSS-1616 (1608, 1601) A - inputs	1	PPC-16F	196	
PSS-1616 (1608, 1601) AA - inputs	1	PPC-16F * 2pcx	196 * 2	<i>Per each device</i>
PSS-1616A - outputs	1	PPC-16M	178	
PSS-1616AA - outputs	1	PPC-16M * 2pcx	178 * 2	<i>Per each device</i>
PSS-1608A - outputs	1	PPC-8M	140	
PSS-1608AA - outputs	1	PPC-16M	178	
PSS-1601AA - outputs	1	PPC-4M	102	
PSS-0808A, PSS-0804A	1	PPC-8F8M	196	
PSS-0808AA, PSS-0804AA	1	PPC-8F8M • 2urr	196 • 2	<i>Per each device</i>
PSS-0404AA	1	PPC-8F8M-1	196	
PSS-0801A	1	PPC-8F2M	160	
PSS-0801AA	1	PPC-8F4M	170	<i>Per each device</i>
		PPC-8F	140	
PKS-0401A	1	PPC-4F2M	120	
PKS-0401AA	1	PPC-8F4M-1	196	
Audio delay lines				
PADL-3101	1	PPL-2F4M	120	
	2	PPL-4F8M	170	
PAAD-3102	1	PPL-2F2M	102	
	2	PPL-4F4M	140	
	4	PPL-8F8M	196	
PADL-3103	1	PPL-1F2M	102	
	2	PPL-2F4M-1	120	
	4	PPL-4F8M-1	170	
PADA-3104	1	PPL-1F4M	120	
	2	PPL-2F8M	160	
Optical receivers and SDI deembedders				
PORC-3225 (7225, 7225A, 3226D, 3226) 4AA PORC-3234 (3235D, 3235) 4AA PORC-3228 (3229, 3231D, 3231, 3232D, 3232) AA PORC-7228 (7228A, 7229, 7229A) 4AA PEXT-3118 (7118) AA; PEXT-3325AA; PDFE-3308AA	1	PPR-4M	102	
	2	PPR-8M	140	
	4	PPR-16M	196	

Equipment being connected	No. of devices connected	Patch-panel model index	Price	Notes
PORC-3225 (7225, 7225A, 3226D, 3226) 4AE	1	PPR-3M	102	
PORC-3234 (3235D, 3235) 4AE	2	PPR-6M	120	
PORC-3228 (3229, 3231D, 3231, 3232D, 3232) AE	4	PPR-12M	170	
PORC-7228 (7228A, 7229, 7229A) 4AE				
PEXT-3118 (7118) AE; PEXT-3325AE; PDFE-3308AE				
PORC-3225 (7225, 7225A, 3226D, 3226) 4EE	1	PPRE-2M	102	
PORC-3234 (3235D, 3235) 4EE	2	PPRE-4M	102	
PORC-3228 (3229, 3231D, 3231, 3232D, 3232) EE	4	PPRE-8M	140	
PORC-7228 (7228A, 7229, 7229A) 4EE	8	PPRE-16M	196	
PEXT-3118 (7118) EE; PEXT-3325EE; PDFE-3308EE				
PORC-3225 (3226D, 3226) 8AA	1	PTP-8M	140	
PORC-3234 (3235D, 3235) 8AA	2	PTP-16M	196	
PEXT-3325-8AA				
PORC-3225 (3226D, 3226) 8AE	1	PTP-6M	120	
PORC-3234 (3235D, 3235) 8AE	2	PTP-12M	170	
PEXT-3325-8AE				
PORC-3225 (3226D, 3226) 8EE	1	PTPE-4M	102	
PORC-3234 (3235D, 3235) 8EE	2	PTPE-8M	140	
PEXT-3325-8EE	4	PTPE-16M	196	
PORC-3234 (3235D, 3235) 16AAAA	1	PTPE-16M-1	196	
PORC-3234 (3235D, 3235) 16AAAE	1	PTP-14M	185	
PORC-3234 (3235D, 3235) 16AAEE	1	PTP-12M-1	170	
PORC-3234 (3235D, 3235) 16AEAE	1	PTP-10M	160	
PORC-3234 (3235D, 3235) 16EEEE	1	PTPE-8M-1	140	
Optical transmitters and SDI embedders				
POTM-3205 (7205, 3206D, 3206) 4AA	1	PPT-4F	102	
POTM-3214 (3215D, 3215) 4AA	2	PPT-8F	140	
PEMB-3108 (7108) AA; PEMB-3305AA; PDFE-3309AA PIND-3112	4	PPT-16F	196	
PORC-3229 (7229, 7229A) AA				
POTM-3205 (7205, 3206D, 3206) 4AE	1	PPT-3F	102	
POTM-3214 (3215D, 3215) 4AE	2	PPT-6F	120	
PEMB-3108 (7108) AE; PEMB-3305AE; PDFE-3309AE	4	PPT-12F	170	
PORC3229 (7229, 7229A) AE				
POTM-3205 (7205, 3206D, 3206) 4EE	1	PPTE-2F	102	
POTM-3214 (3215D, 3215) 4EE	2	PPTE-4F	102	
PEMB-3108 (7108) EE; PEMB-3305EE; PDFE-3309EE	4	PPTE-8F	140	
PORC-3229 (7229, 7229A) EE	8	PPTE-16F	196	
POTM-3205 (3206D, 3206) 8AA	1	PTP-8F	140	
POTM-3214 (3215D, 3215) 8AA	2	PTP-16F	196	
PEMB-3305-8AA				
POTM-3205 (3206D, 3206) 8AE	1	PTP-6F	120	
POTM-3214 (3215D, 3215) 8AE	2	PTP-12F	170	
PEMB-3305-8AE				
POTM-3205 (3206D, 3206) 8EE	1	PTPE-4F	102	
POTM-3214 (3215D, 3215) 8EE	2	PTPE-8F	140	
PEMB-3305-8EE	4	PTPE-16F	196	
POTM-3214 (3215D, 3215) 16AAAA	1	PTPE-16F-1	196	
POTM-3214 (3215D, 3215) 16AAAE	1	PTP-14F	185	
POTM-3214 (3215D, 3215) 16AAEE	1	PTP-12F-1	170	
POTM-3214 (3215D, 3215) 16AEAE	1	PTP-10F	160	
POTM-3214 (3215D, 3215) 16EEEE	1	PTPE-8F-1	140	

Equipment being connected	No. of devices connected	Patch-panel model index	Price	Notes
Optical transmitters + receivers				
POTM-3205 (7205, 3206D, 3206) 4AA POTM-3214 (3215D, 3215) 4AA PEMB-3108 (7108)AA; PEMB-3305AA +	1	PPTR-4F4M	142	
PORC-3225 (7225, 3226D, 3226) 4AA PORC-3234 (3235D, 3235) 4AA PORC-3228 (3229, 3231D, 3231, 3232D, 3232) AE PEXT-3118 (7118)AA; PEXT-3325AA	2	PPTR-8F8M	196	
POTM-3205 (7205, 3206D, 3206) 4AE POTM-3214 (3215D, 3215) 4AE PEMB-3108 (7108)AE; PEMB-3305AE +	1	PPTR-3F3M	120	
PORC-3225 (7225, 3226D, 3226) 4AE PORC-3234 (3235D, 3235) 4AE PORC-3228 (3229, 3231D, 3231, 3232D, 3232) AE PEXT-3118 (7118)AE; PEXT-3325AE	2	PPTR-6F6M	170	
POTM-3205 (3206D, 3206) 8AA POTM-3214 (3215D, 3215) 8AA PEMB-3305-8AA +	1	PTRD-8F8M	196	
PORC-3225 (3226D, 3226) 8AA PORC-3234 (3235D, 3235) 8AA PEXT-3325-8AA				
POTM-3205 (3206D, 3206) 8AE POTM-3214 (3215D, 3215) 8AE PEMB-3305-8AE +	1	PTRD-6F6M	170	
PORC-3225 (3226D, 3226) 8AE PORC-3234 (3235D, 3235) 8AE PEXT-3325-8AE				
Videoprocessors and master controls				
PDMX-2006, 2007 PVDP-1006, 1007	1	PPM-16M	186	
PCSW-3339AA	1	PPM-4F4M	140	
	2	PPM-8F8M	196	

Cable-less panels				
1.	1U patch-panel, BNC connectors, no cabling	PPB-16	180	
2.	1U patch-panel, BNC connectors, no cabling	PPB-8	124	
3.	patch-panel, XLR connectors, no cabling	PPX-8F	100	
4.	patch-panel, XLR connectors, no cabling	PPX-8M	100	
5.	patch-panel, XLR connectors, no cabling	PPX-8MF	144	
6.	patch-panel, XLR connectors, no cabling	PPX-16F	156	
7.	patch-panel, XLR connectors, no cabling	PPX-16M	138	
8.	patch-panel, XLR connectors, no cabling	PPX-12M4F	144	
9.	patch-panel, XLR connectors, no cabling	PPX-12F4M	144	