

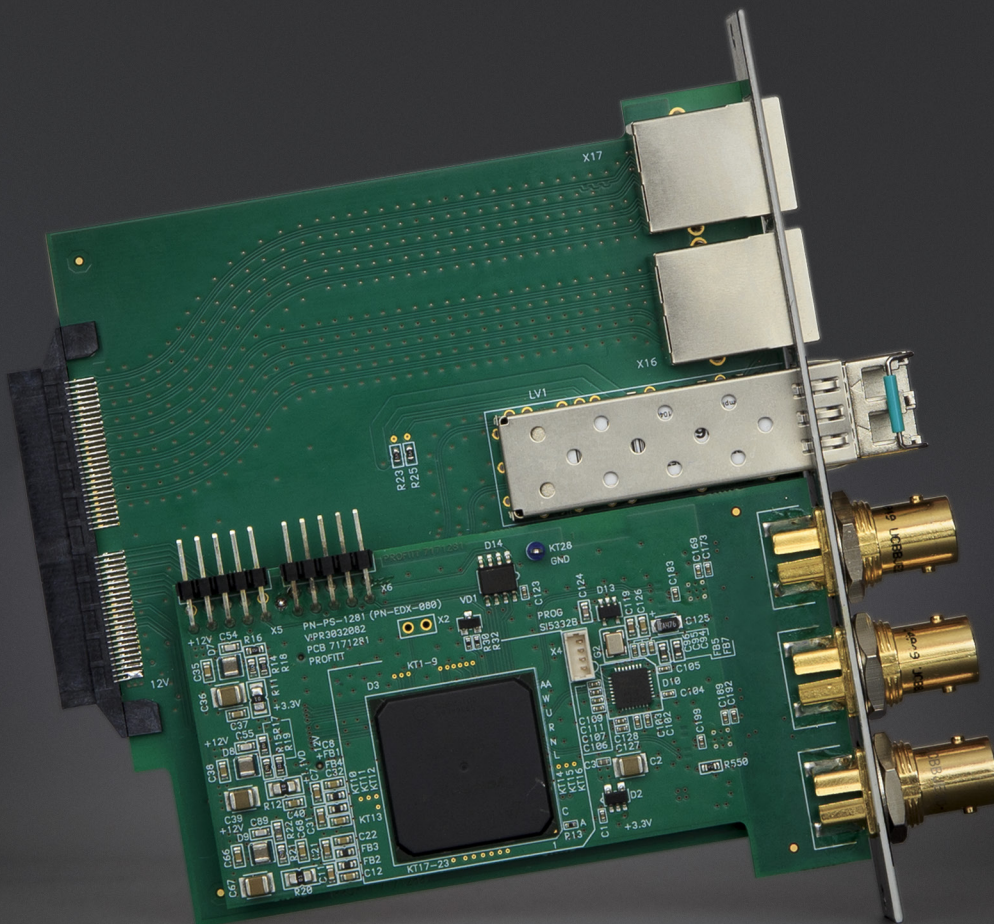
IP AND VIDEO SOLUTIONS

PROFI TT



PRODUCT CATALOGUE

For over 25 years Profitt delivers the cutting-edge solution that can be found in major broadcast facilities.



PROBOX

Modular system

The Probox series of converters offer high-quality design in small package. Units can be powered with supplied AC adapter or with redundant rack mounted PSU.



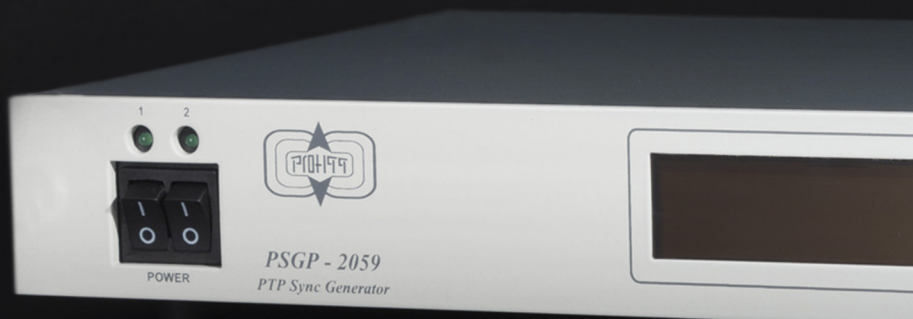
PROFNEXT

Modular system

Profnext is the next generation modular platform for signal processing. Profitt offers a wide range of modular solutions including distribution and fiber conversion.

Standalone Devices

Profitt offers wide range of standalone equipment, including master control switchers, SDI routers and interface converters. Devices built to be rack mounted.



FIBER TRANSPORT

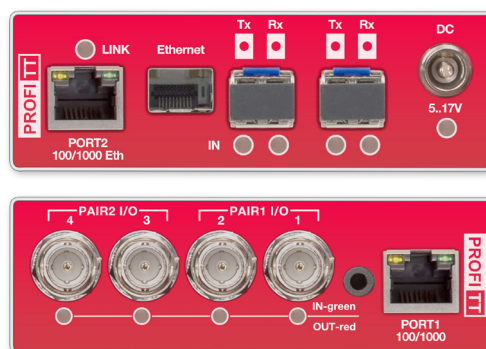
Long range video transport

PBX-MF-150(12G)

PROBOX family optical converter for transporting 4K, 3G-SDI, HD-SDI, SD-SDI, ASI.

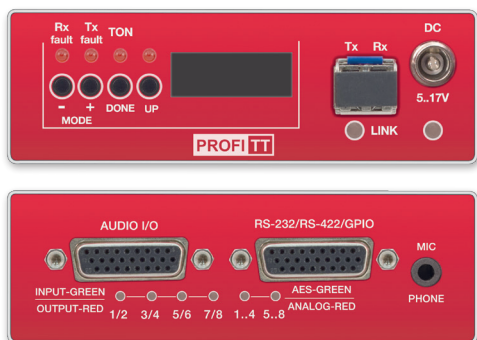
- Standalone fiber converter
- Supports 12G/3G/HD/SD-SDI, ASI
- Hot-pluggable optics
- Up to 4 channels in single unit
- Rx or Tx auto configuration based on SFP type
- Reclocked video input and output
- BNC I/O mode indicator
- Optional two port ethernet switch with fiber media converter
- CWDM and DWDM wavelength supported
- Dimensions: 100x105x33.5mm

12G



Unit supports up to 4 independent SDI optical converters. Automatic Rx or Tx per channel configuration based on the type of SFP installed by the customer. Device includes optional Gigabit Ethernet fiber media converter.

PBX-AF-100



PROBOX family optical converter for transporting audio signals, data and intercom.

- Rx, Tx or Rx+Tx auto configuration based on SFP type
- Bidirectional transport in one unit
- AES and analog audio frontend
- Phantom-powered microphone inputs
- Two ports RS-232/422 transport
- Dimensions: 160x105x33.5mm

PBX-SC-155(12G)

12G



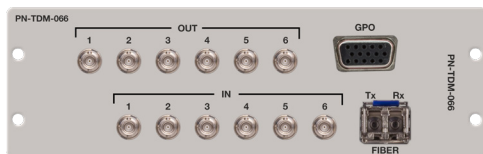
PROBOX family optical converter for transporting 4K, 3G-SDI, HD-SDI, SD-SDI, ASI.

- Rx or Tx auto configuration based on SFP type
- Reclocked video input and output
- BNC I/O mode indicator
- Video SFP up to 120 km link distance
- CWDM and DWDM wavelength supported
- Dimensions: 160x100x30mm

FIBER TRANSPORT

Long range video transport

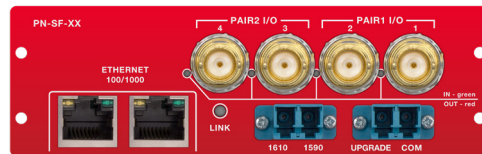
PN-TDM-066



PROFNEXT modular system multi-channel HD, SD-SDI and ASI transmitter and receiver with time division multiplexing.

- Time division multiplexing
- CWDM support
- Low latency
- 6 bidirectional SDI channels
- Low cost SFP+ modules
- Uncompressed video

PN-SF-xx



PROFNEXT modular system optical converter for transporting up to 4 channel 4K/3G/HD/SD-SDI, ASI and 100/1000 Ethernet over single fiber.

- Optical upgrade port for cascading
- Supports 12G/3G/HD/SD-SDI, ASI
- Integrated CWDM multiplexer
- 18dB/11dB optical link budget for 3G/12G SDI
- xx – any combination of Tx, Rx is available in single box

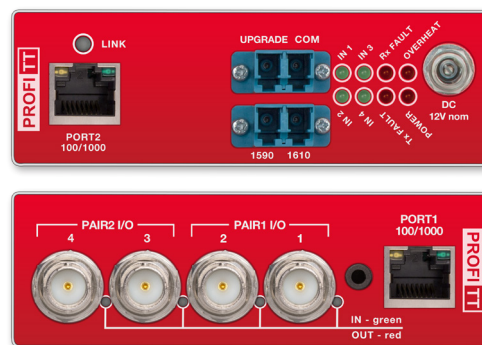
PBX-xxD



PROBOX family optical converter/Dante Gateway for transporting up to 4 channel 4K/3G/HD/SD-SDI, ASI and Dante/AES67 over single fiber.

- Eight-channel 12G-SDI (two devices cascaded)
- Two phantom-powered mics
- Mic gain remotely controllable
- xx – any combination of Tx, Rx is available in single box
- Dimensions: 160x105x33.5mm

PBX-xxE



PROBOX family optical converter for transporting up to 4 channel 4K/3G/HD/SD-SDI, ASI and 100/1000 Ethernet over single fiber.

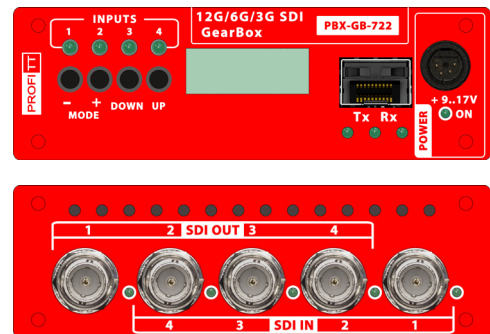
- Optical upgrade port for cascading
- Any combination of Tx, Rx is available in single box
- Integrated CWDM multiplexer
- xx – any combination of Tx, Rx is available in single box
- Dimensions: 163x105x33.5mm

FIBER TRANSPORT

Long range video transport

PBX-GB-722

12G/6G/3G SDI gearbox



PRODUCT INFORMATION

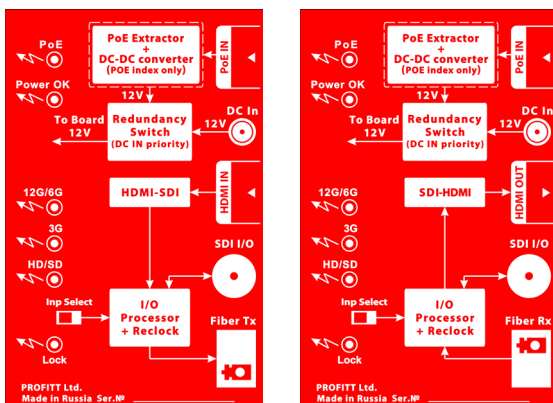
The following gearbox conversions supported:

- demultiplexing/multiplexing single 12G UHD SDI to/from quad 3G SDI links
- demultiplexing/multiplexing single 12G UHD SDI to/from dual 6G SDI links
- demultiplexing/multiplexing single 6G UHD SDI to/from dual 3G SDI links

FEATURES

- 5 BNC for I/O
- SFP slot for video-SFP
- SFP may be single-channel (Rx or Tx) or dual-channel (transceiver)
- output 12G UHD SDI signal is provided, and input is accepted in electrical (BNC) and optical (SFP) formats
- controls from local panel

PBX-SHT-156/157 PBX-SHR-158



Single-channel optical 12G/3G/HD/SD SDI/4K HDMI 2.0 transmitters and receivers

PRODUCT INFORMATION

PROBOX family single-channel transmitters support:

- one 12G/3G/HD/SD SDI/4K HDMI 2.0 signal (PBX-SHT-156 model)
- one 12G/3G/HD/SD SDI signal (PBX-SHT-157 model)

PROBOX family single-channel receiver PBX-SHR-158-

PoE supports:

- one 12G/3G/HD/SD SDI or one 4K HDMI 2.0 signal

FEATURES

Miniaturised box (66x105x33,5 mm). Powered by 12V@1A adapter with PoE redundancy (Category 5 Ethernet cable).

When an HDMI input signal is connected to the PBX-SHT-156 transmitter, an SDI copy of that signal is available at BNC connector.

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CAMERA FIBER LINK

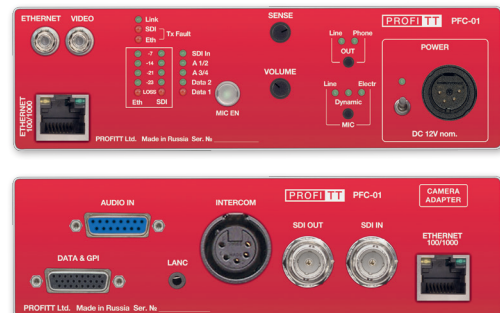
Camera converters

PFC-01/PFB-02

3G-SDI

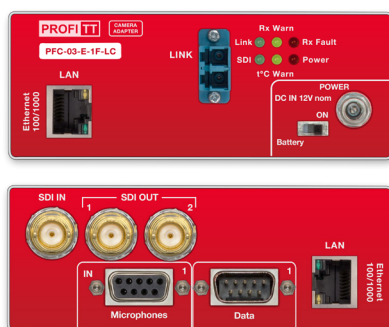
- ▶ **BIDIRECTIONAL SDI TRANSPORT**
- ▶ **CAMERA AUDIO TRANSMISSION**
- ▶ **TALLY, DATA AND ETHERNET TRANSPORT**

- LANC/RS-232/422/485/485(2W), camera audio control, Tally
- Two-port 100/1000 Ethernet connectivity
- Talkback
- Four-channel audio from a camera to a base station
- Single- or dual-fiber modifications
- V-mount option
- Dimensions: 100x140x44mm



Intended for bidirectional transmission of video, audio and control signals between a remote camera and it's base station over one or two optical fibers.

PFC-03/PFB-04



- RS-232/422/485/485(2W)
- Two-port 100/1000 Ethernet connectivity
- Two line or phantom-powered mic inputs
- Mic gain adjustment from base station
- Single- or dual-fiber modifications
- V-mount option
- Dimensions: 100x100x44mm

Intended for bidirectional transmission of video and control signals, one-way microphone audio between a remote robotic PTZ camera and it's base station over one or two optical fibers.

CAMERA FIBER LINK

Camera converters

PFTS-0221

4K/3G/HD/SD SDI camera fiber link

PRODUCT INFORMATION

Bidirectional optical fiber link for 4K/3G/HD/SD SDI camera, Intercom, audio and remote control. Hybrid cable option for remote power supply.

BASE STATION KIT

Includes two devices:



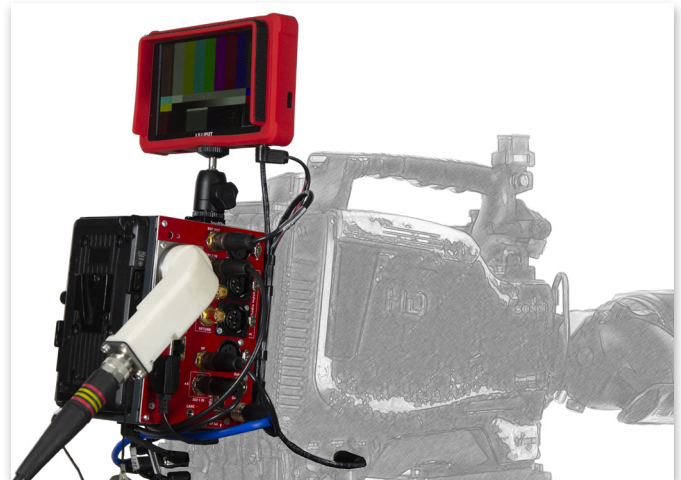
Base Station processor PFB-022

Processes all video, audio, camera data signals. On the front panel, LEDs display the line status, the presence of input and output SDI signals, the presence of data, etc. The OLED display and processor navigation buttons are designed to configure the system and control its optical parameters.



Power supply/base station controller PMX-0123

Powers the remote camera via a hybrid cable. Connects via optics (ST/UPC connectors) to the PFB-022 processor.



PFC-0221 camera adapter

The PFC-021 camera adapter is attached to the camera like an external battery. The OLED display and navigation buttons of the adapter are designed to configure the system, adjust Intercom levels and other parameters. When using a hybrid cable, power is supplied to the camera and adapter from the base station.

FEATURES

- One 4K and one 3G SDI signal from the camera to the base station (4K-version)
- Two 3G SDI signals from the base station (Return A/B)
- REF channel from base station for camera tracking
- Two MIC-inputs with +48V phantom power
- Two 2 linear audio return channels
- Two-channel Intercom
- LANC support
- Green & Red Tally
- Two-port 1GbE Ethernet link to the camera side
- Hybrid cable (120W max) to power up the camera from the base station
- V-Mount or Golden-Mount option
- Option to power up the camera from a local PSU of battery
- LEMO, OpticonDuo, Rosenberger or other hybrid cable connector

MULTIVIEW

MultiViews for SDI signals

PBX-MTV-508

- ▶ SDI MONITORING
- ▶ REMOTE MONITORING
- ▶ QUALITY ASSURANCE

PRODUCT INFORMATION

Up to **8 input** signals can be displayed in the layout.

Multiviewer layout is configured via web interface. User can change windows size, add text, graphics, signal status indicators and clock.

Integrated **monitoring system** displays signal loss, video freeze and audio level. Multiviewer output can be displayed remotely via integrated H.264 encoder.

3G-SDI



Compact **PROBOX** Family MultiView for SDI signals with SDI and HDMI outputs.

FEATURES

- Up to 8 input signals can be displayed in the layout
- SDI and HDMI outputs
- Expandable up to 35 inputs
- Low delay
- Teletext and SCTE-104 monitoring
- Video faults indicator
- Web interface for control and monitoring

PN-MTV-581

MultiView for SDI signals for **PROFNEXT** modular system.

PRODUCT INFORMATION

Up to **8 input** signals can be displayed in the layout. Each window is independent and supports up to **3G-SDI**.

Multiviewer layout is configured via web interface. User can change windows size, add text, graphics, signal status indicators and clock.



FEATURES

- SDI output
- Cascadable up to 35 inputs
- Low delay
- Teletext and SCTE-104 monitoring
- Video faults indicator
- Web interface for control and monitoring
- Easy to use layout editor

DANTE GATEWAY

PEAI-9064

Ethernet Dante, AES67 audio interface



PRODUCT INFORMATION

Interconnects audio signals to LAN (AoIP) using the AES67, Dante protocols. Analog and/or AES3 signals are supported, as well as phantom-powered microphones.

FEATURES

- Up to 64 balanced analog audio inputs and outputs
- -Up to 32 AES3 digital audio channel inputs and outputs
- -Two Ethernet 100/1000 BaseT ports – the Primary and the Secondary for redundancy and cascability
- One optical SFP
- Phantom power for microphones capability
- Support for User Bits and Channel Bits (compatible with Riedel intercom equipment)
- REF WC input and output
- “Hotswappable” power supply units.
- WEB interface and GPI

PAMI-9128

64-channel MADI audio interface



FEATURES

- Up to 64 balanced analog audio inputs and outputs
- Up to 32 AES3 digital audio channel inputs and outputs
- Two MADI inputs and outputs
- Phantom power for microphones capability
- Support for User Bits and Channel Bits (compatible with Riedel intercom equipment)
- REF WC input and output
- “Hotswappable” power supply units.
- WEB interface and GPI

PRODUCT INFORMATION

Designed to bidirectionally convert analog and/or digital audio signals in AES3 format into a digital serial audio stream in MADI format.

DANTE GATEWAY

IP Audio solutions

PEDX-9092



Dante, AES67 to/from 3G/HD/SD SDI audio bridge



PRODUCT INFORMATION

Receives 3G/HD/SD SDI embedded and Ethernet Dante/AES67 uncompressed audio streams, extracts the required audio channels from Ethernet and embeds them into the output SDI, simultaneously deembeds audio from SDI to transfer into Ethernet Dante, AES67. Supports 16 audio channels processing.

FEATURES

- Two Ethernet 100/1000 BaseT ports – the Primary and the Secondary for redundancy and cascading
- “Hotswappable” power supply units.
- WEB interface and GPI

PEMX-9093

16x16 channels Dante networked standalone audio interface with SDI audio embedder/de-embedder.

PRODUCT INFORMATION

Receives 3G/HD/SD SDI embedded and MAD I audio streams, extracts the required audio channels from MAD I and embeds them into the output SDI, simultaneously deembeds audio from SDI to transfer into output MAD I stream. Supports 16 audio channels processing.

FEATURES

- One (PEMX-9093) or two (PEMX-9093-2) MAD I I/O modules
- One input and two SDI outputs per module
- Per-channel SDI embedding/deembedding
- Two MAD I inputs, “A” and “B”
- MAD I input selection (seamless):
 - automatic
 - manual
 - by GPI
 - via WEB-page
- - two MAD I outputs
- - one optical SFP slot for MAD I interface, with Rx/Tx autoconfiguration
- - REF WC input and output
- - output MAD I synchronisation from input MAD I or WC
- - “Hotswappable” power supply units
- - WEB interface and GPI

DANTE GATEWAY

IP Audio solutions

PCMD-9164



64-channel MADI-Dante bridge

FEATURES

- Up to two independent bridges in the device
- Up to 64 audiochannels for each bridge
- Sample Rate Converters on each input and output
- Genlockable to the external Word Clock
- Redundant PSUs
- Locally and remotely (web-interface) controllable

PRODUCT INFORMATION

PCMD-9164 64-channel MADI-Dante bridge. Bidirectional interface for sixty four 48kHz channels between MADI and Dante networks. Optical and coaxial I/O on MADI side.

PDAN-4040



Dante 4-channel audio PoE-powered interface

PRODUCT INFORMATION

Intended to bridge analog or AES3 audio signals (AoIP) on a local network by means of the Dante protocol and for audio mapping at inputs and outputs. Powered via Ethernet (PoE) or by an external 12VDC adapter. Optical Ethernet SFP-module option

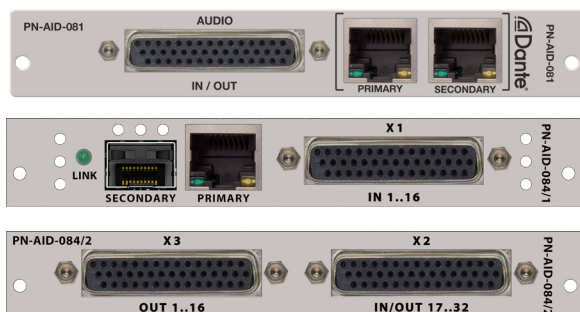
FEATURES

- 4 balanced analog or 2 AES3 audio inputs
- 4 balanced analog or 2 AES3 audio outputs
- mic input module capability with $\pm 48V$ phantom power and gain adjustment
- SRC on AES3 inputs
- User Bits and Channel Bits support (compatibility with Riedel)
- controls and management over Ethernet by means of Dante Controller and built-in WEB-page

DANTE GATEWAY

IP Audio solutions

PN-AID-081 PN-AID-084



Ethernet Dante, AES67 audio interfaces

PRODUCT INFORMATION

Provides Dante bridge for analog or digital audio (AoIP) in local network. Optional SFP module allows for long distance Dante transportation.

PN-EDX-080 PN-EDX-082



Dante networked SDI audio embedder/de-embedder for **PROFNEXT** modular system. Devices can be fully configured with Dante Controller and is AES67 compatible.

FEATURES

- up to 32 linear or mic (phantom powered) inputs with gain adjustments
- up to 32 balanced analog outputs
- up to 16 digital (AES3) inputs and outputs
- optical transport for Ethernet (AES67, Dante)
- User Bits and Channel Bits support (compatibility with Riedel)
- Primary and Secondary Ethernet 100/1000 BaseT ports with Dante Redundancy
- SFP slot for electrical or optical Ethernet SFP (PN-AID-084 model)
- PN-AID-081 is an 8-channel version without the SFP
- controls and management over Ethernet by means of Dante Controller and built-in WEB-page

FEATURES

Embedding/de-embedding:

- Full 32-channels SDI/Dante audio - PN-EDX-082
- Full 16-channels SDI/Dante audio - PN-EDX-080
- Bidirectional video SFP support
- Additional LOOP SDI output
- Dante redundancy support

AUDIO EMBEDDERS/DE-EMBEDDERS

Audio input/output

PBX-EDS-450-A/E/M

- ▶ BROADCAST STUDIOS
- ▶ TV PRODUCT
- ▶ RECORDING STUDIOS
- ▶ AUDIO MONITORING

PROBOX family compact 4-channel SDI embedder/de-embedder for analog or AES audio.

PRODUCT INFORMATION

3G, HD, SD-SDI embedder/de-embedder supporting up to 4 audio channels (analog or AES3), up to 4 microphone



3G-SDI

inputs. Capability to re-map deembedded audio pairs from SDI IN into any SDI OUT channels.

FEATURES

- 3G, HD, SD-SDI video supported
- Input video standard autodetection
- Audio re-mapping
- Capability of up to 4 mic inputs with optional 48V phantom power
- Gain adjustment on every channel pair
- Mic level adjustment on every input
- Local panel or USB controls and indication

TECH SPECIFICATIONS

Video inputs and outputs

1 x BNC SDI input, 2 x BNC SDI outputs

Supported video standards

SD 625i/525i
HD 1080i 50/59.94/60,
1080p 23.98/24/25/29.97/30
720p 50/59.94/60
3G 1080p 50/59.94/60

Audio inputs

(depending on sub-model type)

DHS-26M (socket)
Up to 4 line inputs
Up to 2 AES3 inputs
Up to 4 microphone inputs

Audio outputs

(depending on sub-model type)

DHS-26M (socket)
4 line outputs
2 AES3

Dimensions

100x105x35.5mm

H.264 AVC COMPRESSION

Compressed media solutions

PBX-STR-500EN

- ▶ LIVE EVENTS STREAMING
- ▶ MULTICAST FEED FOR IP CONTRIBUTION
- ▶ PRESENTATIONS AND CONFERENCING
- ▶ AV SYSTEM MONITORING



H.264

Compact **PROBOX** Family SDI and HDMI H.264 streamer and recorder designed for broadcast applications.

PRODUCT INFORMATION

The module can **stream** the live event and **record** its master quality version for post-event editing.

Dedicated TSoIP port provide zero-jitter output for unicast or multicast.

Two channels of audio are deembedded from SDI/HDMI inputs. PBX-STR-500 also

have line audio and microphone inputs. User can select **either source** or external microphone for the program audio. Integrated **cross converter** provide inputs to be converter to desired standard.

FEATURES

- Compatible with popular CDNs
- High quality local recording
- Integrated cross converter
- Support streaming formats UDP, RTP, RTMP, HLS
- Up to 3G-SDI and HDMI inputs
- Build-in luma key for channel branding
- Microphone or external audio overlay on the program audio
- Program HDMI output
- DVB-ASI output

TECH SPECIFICATIONS

Video inputs

- 1 x BNC SDI input, 1 x BNC SDI output
- 1 x HDMI 1.4a input, 1 x HDMI 1.4a output

Video input formats

- 1080i 50/59
- 720p 50/59
- 525i 59, 625i 50

Video Encoder

- H.264 MPEG-4 AVC Part 10
- High, Main and Baseline profile
- Bit Rate: 200 kbps to 16 Mbps

Audio encoder

- MPEG-4 AAC LC, stereo
- MPEG-1 Layer II, stereo
- Bit Rate: 32 kbps to 256 kbps

Dimensions

- 210x160x34mm

H.264 AVC COMPRESSION

Compressed media solutions

PN-MPE-264

Compact SDI H.264 streamer for **PROFNEXT** modular system.



PRODUCT INFORMATION

Dedicated TSoIP port provide **zero-jitter** output for unicast or multicast. Flexible video scaler's presets for streaming out.

Two channels of audio are deembedded from SDI inputs.

Integrated **cross converter** provide inputs to be converter to desired standard.

Flexible video scaler's presets for streaming out.

FEATURES

- Compatible with popular CDNs
- Supports streaming formats UDP, RTP, RTMP, HLS
- Up to 3G-SDI inputs
- Unicast and multicast support
- Integrated cross converter
- Teletext processing
- Web interface for configuration
- DVB-ASI output
- High density modular design
- Low latency encoding

MASTER CLOCK SYSTEM

Time and sync reference solutions

PSGP-2059

PTP

OCXO



Standalone multiformat video signal generator for synchronization and reference applications.

PRODUCT INFORMATION

Module provide black burst and HD tri-level sync, 10MHz, 1 PPS, Wordclock and LTC outputs.

Can also serve as Network Time Protocol (NTP) server and as Precision Time Protocol (PTP) grandmaster clock.

FEATURES

- GPS/GLONASS reference
- Independent sync outputs
- 10MHz, 1PPS, LTC
- PTP profile support IEEE1588, SMPTE2059, G.8275.2
- Future use in SMPTE 2110, 2022-6 networks
- High accuracy
- High stability OCXO oscillator
- Master or Slave operations
- Easy to use web interface

- ▶ **SYNC GENERATOR FOR BROADCAST FACILITIES**
- ▶ **TIME REFERENCE SERVER STRATUM 1**
- ▶ **GENERATION OF 10MHZ AND PPS**

Also included support of **SMPTE ST 2059-2** for hybrid SDI and IP SMPTE 2110 video networks.

In PTP slave mode device can generate reference signals from a network source. Dual power supplies ensure continuous availability of reference signals.

TECH SPECIFICATIONS

General

GPS and GLONASS receiver
OCXO oscillator
High stability 10^{-10}

Network synchronization

NTP protocol, PTP IEEE 1588, G.8275.2
SMPTE ST 2059-2 profile

Sync signals

Black burst, tri-level
PPS: 2.5V, 50 Ohm
10MHz: 2.5V, 50 Ohm

LTC timecode

SMPTE 12M-1-2008, EBU SMPTE309M
Formats 25, 30, 30/1.001, 24, 24/1.001

Word clock

48 kHz, 2.5V, 50 Ohm

Dimensions

430x44x225mm

MASTER CLOCK SYSTEM

Time and sync reference solutions

PN-SGP-321



Multiformat video signal generator for synchronization and reference applications for **PROFEXT** modular system.

- GPS and GLONASS receiver
- OCXO oscillator
- PTP with PTP SMPTE ST 2059-2 profile
- Future use in SMPTE 2110, 2022-6 networks
- Master or Slave operations
- Easy to use web interface
- 10MHz, 1PPS

PNTP-5021

OCXO



Compact NTP server and sync generator. Module provides PPS and LTC reference signals.

- GPS and GLONASS receiver
- Generating 10 MHz and 1 PPS reference signal
- Generating LTC signal according to EBU/SMPTE309M
- OCXO oscillator
- Functioning as NTP Stratum 1 server

PESI-4259

- ▶ **SYNC PULSE CHANGEOVER**
- ▶ **THIRD PARTY GENERATORS**
- ▶ **BROADCAST STUDIOS**

Sync signals changeover. Automatic switching between the two sync pulse generators.

PRODUCT INFORMATION

Standalone sync pulse changeover. It can be used with PSGP-2059 or third party sync pulse generators. In the event of failure of primary sync source PESI-4259 changes to secondary source. Inputs for Analog, Digital video, AES, LTC, 1PPS, 10MHZ and WC are available.



FEATURES

- Analog (Tri-Level or BB) or digital video (3G/HD/SD SDI), AES, LTC, 1PPS, 10MHz, WC
- Event logger
- Web interface for remote management
- Hot-swappable redundant PSU

VIDEO DELAY LINE

PN-VDS-052



3G/HD/SD SDI video delay line

PRODUCT INFORMATION

3G/HD/SD SDI video delay line with genlocking to REF, capability for audio delay adjustment

PN-VDS-052 line is a part of **PROFNEXT** Family.

It is placed in 1U or 3U cases of the **PROFNEXT** system and occupies one slot in the case. In 1U cases, blocks are placed horizontally, in 3U cases - vertically.

FEATURES

- Video and audio delay by 1 to 62 frames
- Phase adjustment within TV-line and/or frame
- SDI IN signal loss indication
- EDH/CRC (min/hour) for the SDI IN
- Built-in BARS generator
- Built-in 1kHz tone generator
- Embedded audio presence indication
- Audio re-mapper
- Additional audio delay up to 18 frames within any channel pair

LIVE PRODUCTION

Production switchers

PDMX-2106



Six-channel broadcast switcher for small TV studios.

- Frame sync on every input
- Built-in logo generator
- Down-converter
- AUX output
- Teletext pass-through
- Redundant PSU

PDMX-2106 is a six channel broadcast switcher for small TV studios. It can be used for AD or local program insertion, or as all-in one solution for live video production.

Switcher has integrated HDMI **multiviewer**. You can get 2 picture in picture DVEs and 3 independent layers **for graphics**.

The PDMX-2106P control panel is a professionally designed hardware control panel for PDMX-2106 switcher. The design includes touch screen LCD for configuration and high-quality buttons. Each button is backlit, and the label can be changed.

PN-LGM-521 PN-LGM-530



Seamless A/B switcher, logo generator/ inserter with input synchronizers for **PROFNEXT** modular system.

- Frame sync on every input
- Multiple transition types
- Logo generator
- External audio option

PN-LG-529



Logo generator for 3G/HD/SD-SDI signals in **PROFNEXT** modular system. Module outputs FILL and KEY signals.

- Support of 3G/HD/SD-SDI
- Static and dynamic logos, crawl line
- Audio clips
- Web interface for configuration

STANDARDS CONVERSION

SDI and HDMI video converters

PN-DSC-744

PROFNEXT Family Standards' converter



PRODUCT INFORMATION

3G/HD SDI => SD SDI down-converter (on the same frame rate)

FEATURES

- Converts 1080i/50, 1080i/60, 1080p/25, 1080p/24, 1080p/23,8, 720p/50 to 625i/50
- Converts 1080p/60, 1080p/59,94, 1080i/60, 1080i/59,94, 1080p/30, 1080p/29,97, 720p/60, 720p/59,94 to 525i/59,94
- Output signal is locked to the REF of the same frame rate
- Aspect rate conversion and Scalling
- EBU Teletext support
- OP-47 and SMPTE-2031 compliance
- OP-42 conversion (to VBI-Teletext)
- SCTE-104 support
- Audio pass-through for any two input groups
- Audio remapper
- Audio gain and delay adjustment
- Two SDI outputs
- One output for the reclocked input SDI with relay bypass

STANDARDS CONVERSION

SDI and HDMI video converters

PN-UDC-731

PROFNEXT Family 12G/6G/3G/HD/SD-SDI/
HDMI universal standard cross-converter



PRODUCT INFORMATION

Support of all 12G/6G/3G/HD/SD-SDI/
HDMI standards. Up- and down-
conversion with frame-rate conversion.
Output signal is locked to Black Burst
or Three Level reference. SDI/HDMI<-
->HDMI/SDI conversion support. Color
space Rec.709 <--> Rec.2020 and RGB
(HDMI)--> YCbCr 4:2:2 conversion.

FEATURES

- Up-conversion
- Down-conversion
- Frame-rate conversion
- Output signal referenced to Black Burst or Three Level
- Rec.709 <--> Rec.2020 color space conversion
- RGB (HDMI)--> YCbCr 4:2:2 color space conversion
- Support of eight channels of the embedded audio with delay compensation
- OP47, OP42, SMPTE-2031 closed caption support
- SCTE104 support
- AFD insertion
- Aspect ratio conversion
- WEB interface

STANDARDS CONVERSION

SDI and HDMI video converters

PBX-CC-300

- ▶ VIDEO STANDARD CONVERSION
- ▶ FIBER OPTIC CONNECTIVITY
- ▶ ASPECT RATIO CONVERSION
- ▶ SDI/HDMI FRAME SYNCHRONIZER

Compact **PROBOX** Family cross converter with frame synchronizer. Device allow for conversion of 3G/HD/SD across different video standards.

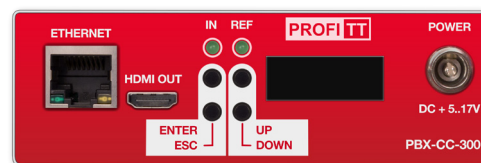
PRODUCT INFORMATION

The input signal is converted to the selected standard and **synchronized** to reference signal. Supported signals from 3G-SDI to SD-SDI.

Device support up to 8 channels of audio with delay compensation.

FEATURES

- 3G/HD/SD up, down and cross converter
- SDI, HDMI inputs and outputs at the same time
- Frame synchronizer
- ARC
- Teletext and WSS support
- Audio gain adjustment
- Available with fiber I/O
- Fiber optic connectivity
- Compact design



3G-SDI

PBX-CC-300 converts Teletext and WSS between HD and SD formats.

ARC convert signals with different aspect ratios.

SFP option allows for fiber optics connectivity in the same unit.

TECH SPECIFICATIONS

Supported video standards

SD 625i/525i

HD 1080i 50/59.94/60,

720p 50/59.94/60

3G 1080p 50/59.94/60, Level A, 4:2:2

Inputs

1 x BNC SDI

1 x mini HDMI

1 x BNC REF, Bi- and Tri-level sync

External audio

Analog audio, jack 3.5 mm

AES/EBU, jack 3.5 mm

Fiber connectivity

Fiber SDI input, LC/PC connector

Fiber SDI output, LC/PC connector

Dimensions

100x105x33.5mm

STANDARDS CONVERSION

SDI and HDMI video converters

PHDC-7301

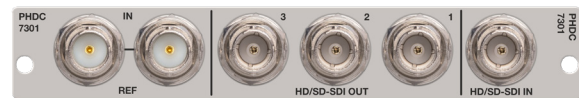
- ▶ VIDEO STANDARD CONVERSION
- ▶ ASPECT RATIO CONVERSION
- ▶ FRAME SYNCHRONIZER

PRODUCT INFORMATION

The input signal is converted to selected standard and synchronized to reference signal.

Device support up to 8 channel of audio with delay compensation.

ARC converts signals with different aspect ratios. SDI signals supported up to 3G-SDI.



SDI Cross converter for **PROFLEX** modular system. Device allow for conversion across different video standards.

FEATURES

- 3G/HD/SD up, down and cross converter
- Frame synchronizer
- ARC
- Teletext and WSS support
- Audio gain adjustment

PBX-SVC-710 PBX-SVC-711

- ▶ BROADCAST STUDIOS
- ▶ OB TRUCKS
- ▶ AV NETWORKS

HDMI to SDI converter for **PROBOX** modular system.



4K60

PRODUCT INFORMATION

PBX-SVC-711 is a HDMI to SDI converter and PBX-SVC-710 is a SDI to HDMI converter.

Modules let you convert from SDI to HDMI in HD, 3G and Ultra HD formats while de-embedding audio. Options with analog and AES audio are available.

FEATURES

- SD-SDI, HD-SDI, 3G-SDI and 12G-SDI support
- HDMI 2.0 interface
- Audio embedding/de-embedding
- Analog and AES Audio
- Dimensions: 105x124x33mm

ASI IP GATEWAY

ASI and IP transport solutions

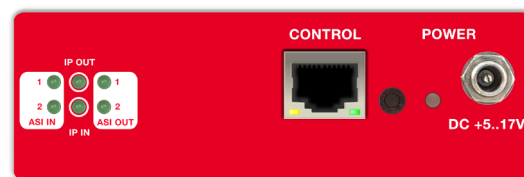
PBX-ENP-200

- ▶ **STANDALONE IP-ASI CONVERTER**
- ▶ **UDP, RTP, 2D FEC (SMPTE-2022)**
- ▶ **COMPACT DESIGN**

Compact **PROBOX** Family two-channel TSolP-DVB-ASI gateway that provides a reliable solution for delivering video content over IP networks.

PRODUCT INFORMATION

Two independent ASI-IP and IP-ASI conversion. Two Ethernet ports (IP transport, configuration and monitoring) and input/output ASI interfaces. Dedicated Ethernet port allows IP transmission with low jitter. Advanced **jitter compensation** algorithm to prevent packet loss due to late arrival. Unicast and Multicast IP addressing allow for maximum network flexibility.



DVB-ASI

FEATURES

- Independent ASI-IP and IP-ASI converters in a single unit
- Low jitter IP transmission
- Supports IP encapsulation 2D FEC according to SMPTE 2022-1/2
- Jitter compensation and packet recovery algorithm
- Multicast support

CHANGEOVERS

Protection switches

PN-CAS-326

DVB-ASI



Seamless DVB-ASI (MPEG, T2-MI) changeover for **PROFNEXT** modular system. Changeover switch ensures the availability of ASI signals in the transmission chain. PN-CAS-326 continuously monitors incoming signals for errors and switches to backup in case of failure.

- Seamless switching
- T2-MI support
- Configurable stream delay
- Continuous monitoring
- SNMP, GPIO, web interface

PAC-4220(4212)



Standalone seamless DVB-ASI (MPEG, T2-MI) changeover. Changeover switch ensures the availability of ASI signals in the transmission chain. Device continuously monitors incoming signals for errors and switches to backup in case of failure. PAC-4220 provides seamless switching.

- Seamless switching option
- T2-MI support
- Configurable stream delay
- Continuous monitoring
- SNMP, GPIO, web interface

PN-CSE-055

3G-SDI



Changeover module for SDI signals for **PROFNEXT** modular system. Automatic signal selection is based on monitoring of video signal, EDH, freeze and audio level.

- SD-SDI, HD-SDI and 3G-SDI support
- Automatic input selection
- SNMP, GPIO, web interface
- Seamless switching
- External REF

PSDC-4230



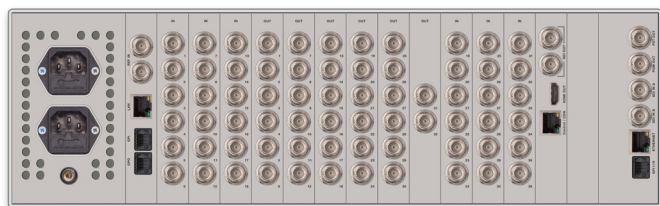
Standalone dual channel changeover for SDI signals. Automatic signal selection is based on monitoring of video signal, EDH, freeze and audio level. Device contains two independent changeovers.

- SD-SDI, HD-SDI and 3G-SDI support
- Dual channel changeover
- SNMP, GPIO, web interface
- Seamless switching
- External REF

ROUTING SWITCHERS

3G/HD/SD SDI/ASI routing

PVIO-3632



Autonomous 3G/HD/SD-SDI routing switchers with electrical or optical I/O.

FEATURES

- Up to 36x32 matrix dimension
- 3G/HD/SD-SDI, ASI support
- RP-168 complians switching point
- Up to 2 clean outputs with DSK
- Optional multiviewer
- Optional graphics' overlay (in 32 series)
- Optical SFP interfaces (in 16 series)
- Automatic cable equalisation
- Redundant PSU (option)
- Remote panels to control one or several outputs
- Web interface for remote management and controls

PVIO-0808



Available in 3 series depending on matrix capacity:

- «**Chameleon 8**» with electric I/O (8x8, 12x4),
- «**Chameleon 16**» with electric and optical I/O (16x16, 20x12, 24x8),
- «**Chameleon 32**» with electric I/O (36x32).

- ▶ **SMALL TV-STUDIOS**
- ▶ **VIDEO SALONS AT STADIUMS**
- ▶ **CENTRAL APPARATUS ROOMS**

PRODUCT INFORMATION

Intended for routing switching of 3G/HD/SD-SDI, ASI signals. Any input source may be routed to any set of outputs.

Clean output switching allows for a seamless transitions between out of sync sources. DSK capability.

Remotely controllable from web interface, automation and remote panels. Equippable with a submodule of two PRG clean outputs with two PS-DSK-1374 DSKs.

The submodule is installed on the matrix board. The PRG outputs are independent. For each of the PRG outputs two DSK signals can be superimposed. An installed submodule reduces the number of switch's outputs (including "clean" ones) by two. Each PRG output has two BNCs.

PVIO-1616EO



CONSOLES FOR ROUTING SWITCHERS

PRM-4130



- ▶ **SMALL TV-STUDIOS**
- ▶ **VIDEO SALONS AT STADIUMS**
- ▶ **CENTRAL APPARATUS ROOMS**

Control console

PRODUCT INFORMATION

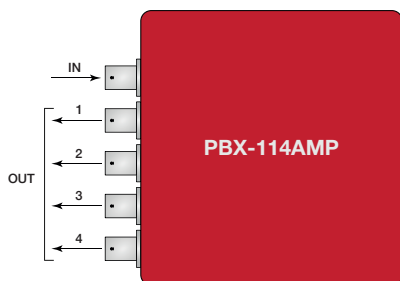
Compatible with all PROFITT's switchers, via an Ethernet link

FEATURES

- Color-coded buttons for switcher controls and status indication
- LCD for all info:
 - on the selected DEST and its' label
 - on the selected SRC and its' label
- Ten digital buttons for DEST and SRC addressing
- Six fixed-function buttons (DEST, SRC, ^, v, ON LINE, TAKE)
- Eight WEB-interface-programmable buttons for fast DEST or SRC addressing
- Eight programmable function buttons (M1...M8)
- Two fixed-function buttons (MODE and UNDO/F).

DISTRIBUTION AMPLIFIERS

Distribution amplifiers for SDI and analog signals



Distribution amplifiers allow a signal to be distributed to multiple destinations. Supported SDI up to 12G-SDI, analog and reference signals. Models available in **PROBOX** and **PROFNEXT** modular systems.

PROBOX SDI:

- PBX-114AMP-12G single channel 1x4
- PBX-118AMP-12G single channel 1x8
- PBX-214AMP-12G dual channel 1x4
- PBX-412AMP quad channel 1x2

PROBOX analog audio:

- PBX-AD-462-3X single channel 1x3
- PBX-AD-462-5D dual channel 1x5
- PBX-AD-462-7D single channel 1x7

PROBOX analog and reference signals:

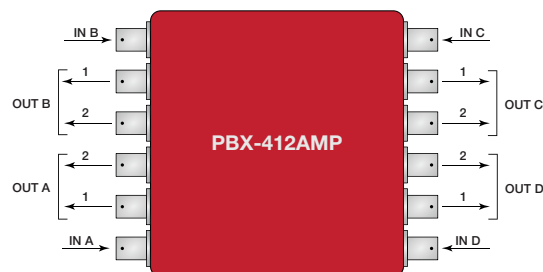
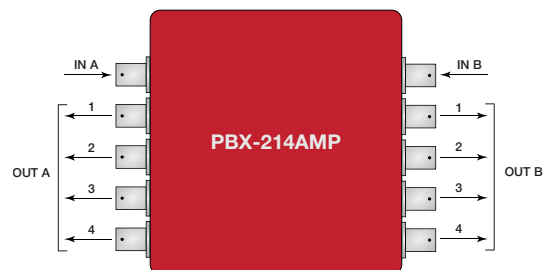
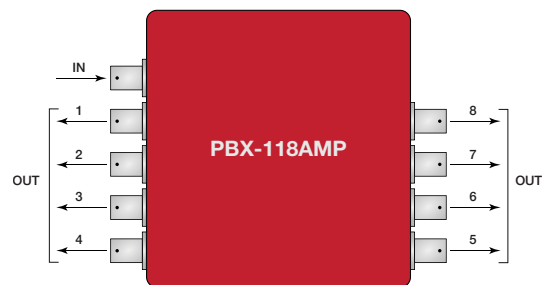
- PBX-VD-414 single channel 1x4
- PBX-VD-418 single channel 1x8
- PBX-VD-424 dual channel 1x4

PROFNEXT SDI:

- PN-AMP-010-4-12G single channel 1x4
- PN-AMP-010-8-12G single channel 1x8
- PN-AMP-010-24-12G dual channel 1x4
- PN-AMP-011-42 quad channel 1x2
- PN-AMP-012-4 single channel 1x4
- PN-AMP-012-8 single channel 1x8
- PN-AMP-012-24 dual channel 1x4

PROFNEXT analog audio:

- PBX-PAD-362-3X single channel 1x3
- PBX-PAD-362-5D dual channel 1x5
- PBX-PAD-362-7D single channel 1x7



PROFNEXT MODULAR SYSTEM

Flexible Modular System



Dimensions: 1RU 483x414x44 mm

Profitt offers a wide range of **PROFNEXT** solutions for fiber transport, channel branding, distribution amplifiers and multiviewers. Modules capable of processing up to 12G-SDI signals. Each frame has a dual feed redundant power supply for high reliability. **PROFNEXT** available in 1RU with capacity of 4 modules and 3RU with 16 modules. Frame provides dual global reference to each module.

PROFNEXT provides solutions derived from tens of individual cards. Integrated frame controller provides unified control system across multiple frames. This allows for easy setup, monitoring and alarms.

- 1RU frame with 4 modules
- 3RU frame with 16 modules
- Redundant power supply
- Global reference
- Integrated monitoring



Dimensions: 3RU 483x414x133 mm

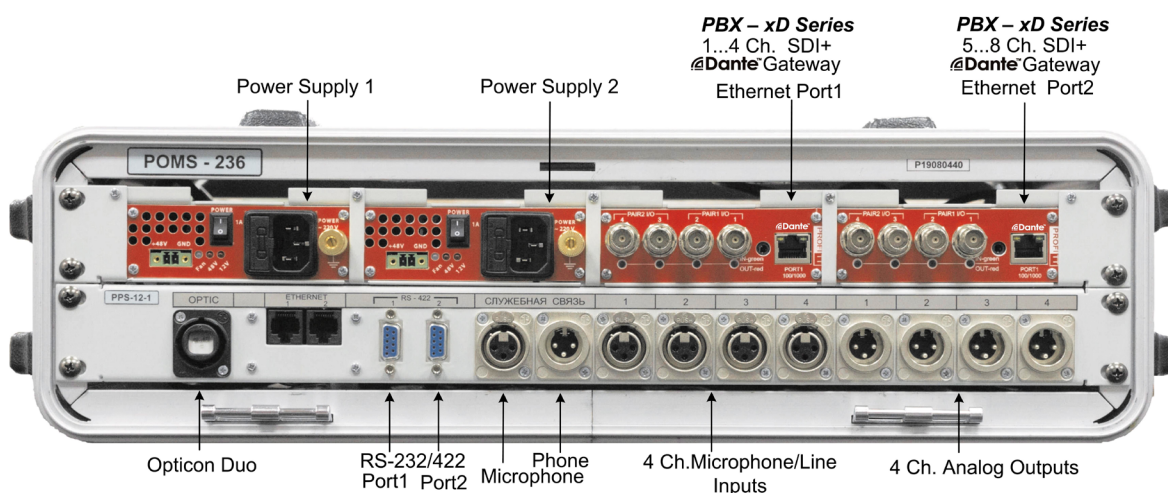
VIDEO PRODUCTION FLIGHT-PACKS

Solution for the SDI, Ethernet, InterCom, audio and RS-232/422 data transport for an OB van. Based on PROBOX family modules.

- Single or Dual Fiber
- Up to 8 Channel 4K SDI
- Any Combination SDI I/O
- 4 IN+4 Out Dante™ Gateway
- Four Phantom Powered Mic Inputs
- Remote Controlled Mic Gain
- Talkback, Tally
- Two Ports RS-232/422/485 Data
- Redundancy Power Supply
- Power over Hybrid Cable (Option)
- Flight Pack: 2U

► REMOTE PRODUCTION

► OB VAN CAMERA CONNECTIVITY



Solutions for:

Broadcast studios

Live production

Contribution networks

Broadcast video,
fiber and
IP equipment

PROFI TT

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