

MASTER SYNC AND CLOCK REFERENCE GENERATOR

PTP NTP OCHO

PSGP-2059 is a multiformat video signal generator for synchronization and reference applications.



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

PSGP-2059 can also serve as Network Time Protocol (**NTP**) server and as Precision Time Protocol (**PTP**) grandmaster clock.

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

Dual power supplies ensure continuous availability of reference signals.

TECH SPECIFICATIONS

General
GPS and GLONASS receiver
OCXO oscillator
High stability 10^{-10}
Redundant power supply
Mains power 110-220V
Network synchronization
NTP protocol
PTP 1588
SMPTE S 2059-2 profile
Sync signals
Black burst 625i50, 525i59.94
Tri-level SMPTE 296M: 720p60, 720p59.94, 720p30, 720p29.9, 720p24, 720p23.9, 720p50, 720p25
Tri-level SMPTE 274M: 1080i60, 1080i59.94, 1080i50, 1080p30, 1080p29.9, 1080p25, 1080p24, 1080p23.9, 1080p60, 1080p59.94, 1080p50
PPS: 2.5V, 50 Ohm
10 MHz: 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

APPLICATIONS

- Sync generator for broadcast facilities
- Time reference server Stratum 1
- Generation of 10MHz and PPS
- Time and LTC reference signals

FEATURES

- PTP with PTP SMPTE ST 2059-2 profile
- Future use in SMPTE 2110, 2022-6 networks
- High accuracy
- GPS and GLONASS support
- Master or Slave operations
- Easy to use web interface