Python 3G

Multichannel fiber optic HD-SDI transport system with CWDM multiplexing



DESCRIPTION

The Python 3G is your answer to lowering the cost of digital video distribution, simplifying your cable plant and eliminating all concerns about distance, interference and grounding.

The Python 3G converts up to 2 groups of 8-channels of HD-SDI to fiber optic transport, all in a compact 1RU frame. Select a transmitter and a receiver frame for eight or sixteen channels, for example, in one direction. Select two transceiver frames for eight channels in each direction.

In addition, Python 3G uses CWDM optical multiplexing options to carry up to 16 HD signals on a single optical fiber.

The Python 3G offers the industry's broadest range of digital transmission rates while maintaining the quality that broadcasters demand. It supports numerous interface standards, including applicable SMPTE, ATSC, and DVB recommendations.

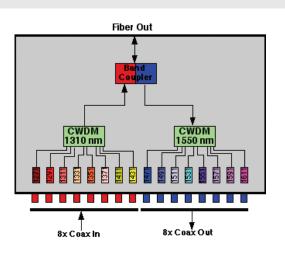
No matter what your format, from 19.4 Mbps to 3 Gbps, the Python 3G allows you to implement it.

- 143 Mbps NTSC composite
- 177 Mbps PAL composite
- 270 Mbps serial component
- DVB/ASI
- 360 Mbps serial component and compressed HDTV
- 540 Mbps proprietary

KEY FEATURES AND BENEFITS

- > Economical, low profile packaging
- > 4 to 16 channels per 1RU
- > Wide range of digital formats
- > 19.4 Mbps to 3 Gbps transport
- > Compatible with digital TV standards SMPTE 292M, 259M and 424M
- > Handles DVB/ASI signals
- > Immune to pathological data errors
- > Equalizes coax up to 3 Gbps

- > BNC I/O
- > Wide optical budget
- > Low system jitter
- > Low power consumption
- > High reliability, durable design
- > CWDM multiplexing options
- > Compatible with other Telecast Series HD/SD-SDI transport systems



TECHNICAL SPECIFICATIONS

| VIDEO | | ELECTRO-OPTICAL | | MECHANICAL/ENVIRONMENTA | |
|---|--|--|---|--|--|
| Transmission method: Input level: I/O impedance: | Digital 800 mV p-p 75 ohm | Operating wavelength: Link margin: | 1310 nm or 1550 nm, optional CWDM available Up to 22 dB | Dimensions (W x H x D): Weight, each end: | 10.5 x 1.75 x 16. 5 lb |
| Return loss | >15 dB, 5 Mhz - 1.5 GHz >10dB, 1.5GHz-3GHz | P | -7 dBm | Connectors: | Electrical: BNC Optical: ST |
| Coaxial Input equalization: | Maximum rate: 3 Gbps Equalization at 3 Gbps: 120 m of Belden 1694A | Receiver sensitivity: Optical source: Optical detector: | | Input voltage: Power consumption: Indicators: | 12-24 VDC <15 W Power On, SDI da |
| | Bit-error rate at -22 dBm Rx optical power: 10 ⁻¹² | | Single-mode | Temperature | optical power |
| Jitter (using pa data pattern): | | | | range: Humidity range: | -20 to 55 °C |

AL

6.7 in data presence, 95 % non-condensing

COMPLIANCE

EMI/RFI:

Class 1 laser 21 CFR 1040.10 Laser safety: Complies with IEC/EN 60825-1 Certifications: RoHS

ORDERING INFORMATION

INTEGRATED CWDM MODELS

| PY3-GH-W8 | 8 channel transmitter, 1 fiber |
|---------------|---------------------------------|
| PY3-RR-W8 | 8 channel receiver, 1 fiber |
| PY3-GHJK-W16 | 16 channel transmitter, 1 fiber |
| PY3-RRR-W16 | 16 channel receiver, 1 fiber |
| PY3-GHRR-W8W8 | 8 channels each way, 2 fibers |
| | |

BUNDLED SYSTEMS

PY3-GHRR-W16 (used together with) 8 channels each way, 1 fiber PY3-IKRR-W16 8 channels each way, 1 fiber The above two units are used together to create a single transport system

POWER SUPPLY (REQUIRED FOR ALL UNITS) ADAP-AC-04

120/240 V to 15 VDC, 4 A, 4-pin XLRF

