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601B

Serial Digital Video

Overview

With the steady transition to SDI outputs in today's high performance broadcast equipment, the ability to extend operating distance while maintaining signal integrity is easily solved using the 601B serial digital video fiber link. Production environments designed as digital islands, with audio embedded into the SDI signal are also supported by the 601B.

Applicable Standards

The 601B units conform to CCIR 601 and SMPTE 259M standards. The 601B passes the SDI signal with the optional embedded audio signal.

Superior Diagnostics

The SMARTS™ diagnostic technology provides built-in diagnostic tools including LEDs that monitor the operating status of the video and optical signals.



Standard Features

- **One-way video transmission over one multimode fiber**
- **Accommodates serial digital video with imbedded audio**
- **Conforms to CCIR 601 and SMPTE 259M digital video standards**
- **SMPTE 310, DVB/ASI Compatible**
- **Optical AGC**
- **10 dB optical budget**
- **Operating distance 8.9 miles (14 km)**
- **Standalone configuration**



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Specifications

Video

- Channels: 1
- Format: NTSC, PAL
- Input/Output Signal: 1.0 V p-p composite
- Input/Output Impedance: 75 ohms

Optical

- Mode: Multimode
- Optical Budget: 10 dB
- Emitter: LED
- Wavelength: 1300 nm
- Operating Distance: 8.9 mi (14 km)
- Gain Control: Optical Automatic Gain Control (OAGC)

Electrical

- Input Power: 13.5 VDC regulated
- Transmitter Current Requirement: 90 mA
- Receiver Current Requirement: 280 mA
- Transmitter Power Consumption: 1.3 W
- Receiver Power Consumption: 3.9 W
- Optional Power Supply: Model 613P

Environmental

- Operating Temperature: -40 to 167 °F (-40 to 75 °C)
- Maximum Humidity: 95% relative, noncondensing

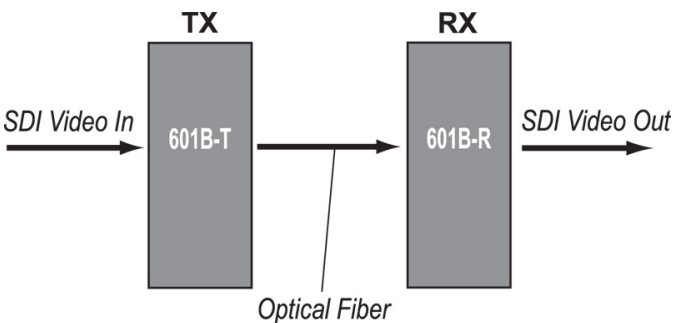
Standards

- Emissions: FCC Part 15, ICES-003, AS/NZS 3548, EN55022
- Immunity: EN50204, EN61000-4-2, -3, -4, -5, -6, -11
- Safety: UL 1950, CAN/CSA 22.2, NO. 950-95

Mechanical

- Dimensions (LWD): 3.72" x 4.14" x 1.63"
- Weight: 0.7 lbs (0.32 kg)
- Construction: Steel

Related Diagram



Ordering Information

Use the Configurator below to select the options available for this product.

601B-□ /1B

Product Type
T Transmitter
R Receiver



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