



## IOC580 TX/RX HDTV OVER FIBER MODULE

### FEATURES

- HD SDI input; 1.485 GHz
- BNC I/O video connection
- Single mode fiber w/ FC fiber connector
- SMPTE 292M/297M/259M/305M compliant
- DVB/ASI compliant
- ATSC/SMPTE 310M compliant; 19.4 to 38.8 Mbps
- RoHS-6 compliant
- Remote status via Ethernet

### OVERVIEW

The IOC580 TX/RX module is a high performance integrated data link for uni-directional communication over single mode fiber. This module is designed to be used in SMPTE 259M/297M/305M/310M applications with data transfer rate up to 540Mbps. The IOC580 is designed to be used in multi-protocol video applications with data transfer rate up to 1.485Gbps (SMPTE 292M/297M/259M/305M/310M).

The IOC580 TX/RX module is designed to connect to electrical high speed serial digital video links that require extended distance performance. It permits replacement of copper cable with optical fiber to provide a solution for systems requiring increased media interconnect distance.

### SPECIFICATIONS

#### GENERAL

- Model 2073 Pluggable Interface Module
- Single-mode fiber
- Single slot module (3" x 6" x 0.9")
- Status via Ethernet

#### ELECTRICAL

- Output voltage level: SMPTE 259M/297M/292M mVpp
- Output impedance: 75Ω on BNC connector
- Jitter
  - ⇒ 135 ps measured with color bar test signal @ 1.485 Gps
  - ⇒ 740 ps measured with color bar test signal @ 143/177/270/360/540 Mbps
- Return loss: 20 dB typical

#### FIBER OPTIC PORT

- Single mode SC
- 1310 nm wavelength
- Link distance
  - ⇒ Typical 33 km (BER<1E-10@360/540/1485 Mbps)
  - ⇒ Typical 43 km (BER<1E-10@143/177/270 Mbps)
- Input power > -20 dBm > -2 dBm
- Optical return loss: 29 dB minimum

#### ENVIRONMENTAL

- Operating temperature: 0° to 50° C
- Relative humidity: 15% to 95%; non-condensing
- Altitude: Sea level to 10,000 feet