



DFT-16R SERIES

Cost-Efficient 1RU Solution For Up To 16 3G/HD/SDI Signals Over Fiber

The new DFT-16R Series from Joseph Electronics provides **up to 16** channels of pristine, un-compressed 3G/HD/SDI video on one or two singlemode fibers (depending on configuration).

Featuring a compact 1 RU enclosure with all connections on rear panel. The fan cooled enclosure also supports redundant power supply operation and can be fitted to handle signal counts from 4 to 16. The status of all signals provided through the front panel LED indicators.

The ability to reconfigure your video feeds on-the-go has gone from being a convenience to being an absolute necessity. With nothing more than a basic screwdriver, users can quickly and easily make the last minute changes that inevitably come up on remote broadcasts.

The modules support SMPTE 424, SMPTE 292, SMPTE 259, SMPTE 297, DVB-ASI, and MADI. Modules can also operate in non-reclocking mode to handle any signal from 50Mb/s all the way up to 3Gb/s.

FEATURES & APPLICATIONS

FEATURES

- Convenient 2-Channel Modules Support:
 - SMPTE 424
 - SMPTE 292
 - SMPTE 259
 - SMPTE 297
 - DVB-ASI
 - MADI
- Up to 16 Channels in 1RU
- Simple, Intuitive Operation
- Field Reconfigurable
- Dual power Supply
- 1 or 2 Singlemode Fiber Versions Available

APPLICATIONS

- Truck Interconnects
- Studio to Control Room Links
- Announce Booths
- Cross Campus Links
- Distance Learning
- Tele-Medicine
- D-ENG/SNG

The DFT-16R Series is ideal for trucking HD Video signals.

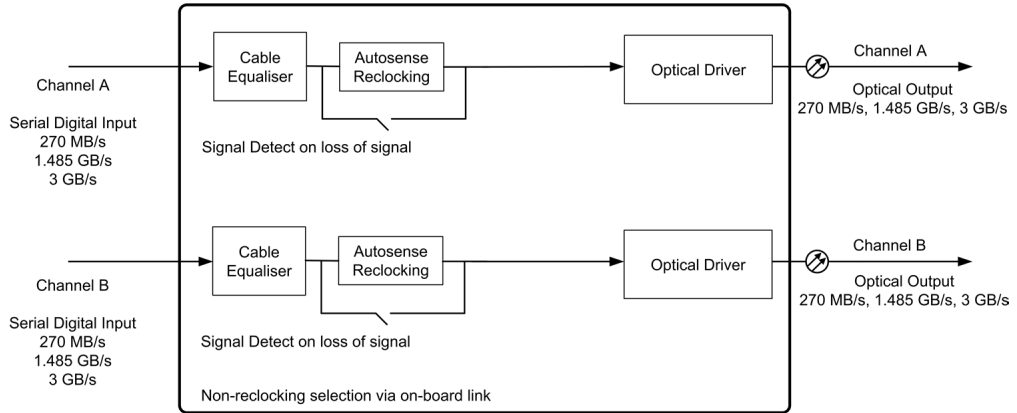
Whether for truck-to-truck inter-connects, video feeds for event announce booths, or any HD video distribution, the DFT-16R Series leverages the dramatic weight savings and high band-width of fiber to deliver pristine video signals over far greater distances than copper.



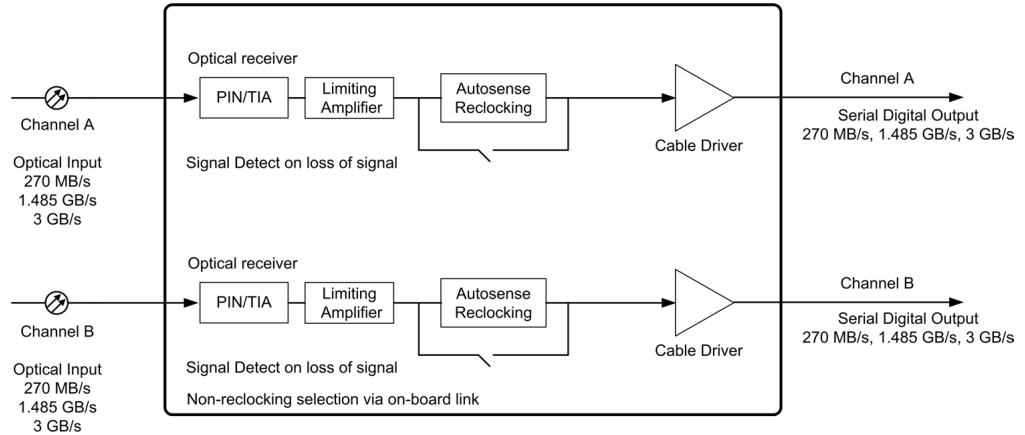
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TX and RX Module Schematics

Transmitter



Receiver



SPECIFICATIONS

VIDEO

Standards SMPTE 424M, 292M, 259M & 297M, DVB-ASI & MADI

*Auto rate selection for 3G, HD & SD-SDI

Connector 1.75Ω BNC / Channel
Return Loss >15 db @ 1.485 Gb/s
Signal Level 800 nV +/- 10%
DC Offset 0 +/- 0.5V
Jitter <0.15 UI Line Equalized
Format Factory Default as Reclocked. Non-Reclocking Mode

MECHANICAL, ENVIRONMENTAL

Dimensions (LxWxH) 1 RU 19" x 9"
Weight 6 lbs.
Temperature Range -30 to +70 C
Humidity Range up to 90% (non-condensing)
Power Input 2x 4-pin XLR
Power rating, nominal 50w max@12VDC
Power Requirement <20w @12VDC
Signal Detect LED on for loss of signal

OPTICAL

Connector ST Standard. Others Available
Fiber Singlemode
Wavelength 1270 - 1610nm
Optical Power -2 dBm @ 1310/1550
 0 dBm @ CWDM
Sensitivity > -25.0 dBm @ 3Gb/s
 > -25.5 dBm @ 1.485Mb/s
 > -26.0 dBm @ 270Mb/s
Max Input Power > -1 dBm
Data Rate 50Mb/s to 3 Gb/s

Conforms with 89/366/EEC, EN 61000-6-1, EN 61000-6-2, Class 1 laser product, and RoHS 2002/95EC

2-Channel HD Video Modules are field Configurable



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