



DFT-EXP SERIES

A 2RU Fiber Solution That Can Be Configured For Your Exact Requirement

The new DFT-EXP Series from Joseph Electronics provides for up to 12 channels of 3G/HD/SDI uncompressed video plus four additional slots that can be fitted with a selection of other modules for audio, intercom, analog video, genlock, MADI, and Dante. All of this is transported on one or two singlemode fibers, (depending on configuration) and can also be operated with optical redundancy. Housed in a compact 2RU fanless enclosure with redundant power supplies, up to six 2-channel modules can be fitted for signal counts from 4 to 12. The direction of each module is field configurable to take care of last minute changes.

Transmit Modules are red and receive modules are blue. Red modules (TX) are slot specific and clearly labeled. The Blue modules (RX) are generic and can go in any slot. Modules support SMPTE 424, SMPTE 292, SMPTE 259, SMPTE 297, DVB-ASI and MADI. Units can also be set to operate in non-reclocking mode to handle any signal from 50MB/s all the way up to 3 Gb/s.

FEATURES & APPLICATIONS

FEATURES

- Modular design
- Convenient 2-Channel HD
- Modules Support:
 - SMPTE 424
 - SMPTE 292
 - SMPTE 259
 - SMPTE 297
 - DVB-ASI
 - MADI
- Other modules available for audio, Icom, Data, Ethernet, & Analog Video
- Simple, Intuitive Operation
- Field Configurable
- Fanless Operation
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- Fanless Operation
- Dual Power Supply
- 1 or 2 Singlemode Fiber
- Versions Available
- Optical redundancy (Optional)
- By-Pass Channel (Optional)

APPLICATIONS

- Truck Interconnects
- Studio to MCR Links
- Announce Booths
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- Studio to MCR Links
- Announce Booths

A Joseph's exclusive is the Bypass Channel. This feature allows the addition of even more analog video, audio, or data.

Units can be custom configured with fiber connections on the front or rear of the enclosure. Convenient LEDs indicate link status and signal presence.

Trust Joseph Electronics to provide innovative and flexible fiber transport solutions that enable broadcasters to make those last-minute changes quickly and easily.



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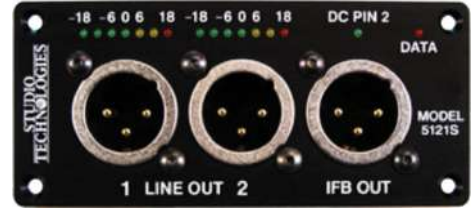
The DFT-EXP Series is ideal for anyone who needs to move a variety of signals point-to-point. Whether for announce booths, host positions, stand-up positions, edit suites, or cross-campus feeds, the DFT-EXP takes advantage of the high bandwidth and dramatic weight savings offered by fiber to deliver pristine video signals and clean audio over far greater distances than copper.

Custom features such as the placement of the fiber connectors; audio, Ethernet, data, and intercom connectivity; optical redundancy; 1 or 2 fiber operation; and the By-Pass channel, ensure that customers get exactly what they need without paying for features that they don't want or will never use.

The ability to reconfigure signals on-the-go has gone from being a convenience to being a 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.



Available Audio Modules



2 Ch. Line OUT / IFB



2 Ch. Mic/Line Audio IN



PL Intercom

Other modules include Ethernet, matrix Icom, analog video, genlock, and Dante

SPECIFICATIONS

MECHANICAL, ENVIRONMENTAL

Dimensions (LxWxH)	2RU 19" x 9"
Weight	7 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	<10w @12VDC
Signal Detect	LED on for loss of signal

VIDEO

Standards	SMPTE 424M, 292M, 259M & 297M, DVB-ASI, and MADI
	*Auto rate selection for 3G, HD @ SD-SDI
Connector	175Ω 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 accessed on pcb

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 3Gb/s

Audio/Icom/Data

Determined by installed module

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

CHICAGO

Joseph Electronics
6633 W. Howard Street
Niles, IL 60714
847-588-3800

JOSEPH
ELECTRONICS

JosephElectronics.com | Sales@josephelectronics.com

CALIFORNIA

Joseph Electronics-West
3045 Teagarden Street
San Leandro, CA 94577
510-352-7500