

# 7800IDA8-3G-F

## 3G/HD/SD-SDI Intelligent 1x8 Distribution Amplifier with Fiber SFP I/O



The 7800IDA8-3G-F provides reliable distribution of 3G/HD/SD-SDI facility signals.

### This device:

- Provides eight reclocked outputs from the 3G/HD/SD-SDI input
- Provides enhanced signal reclocking and conditioning
- Offers dual optical outputs via optional SFP module
- Configuration via SNMP frame controller

The 7800IDA8-3G-F is finely tuned to provide the best performance in the industry for distribution of facility signals. This advanced processing makes it ideal for long reach cable runs.

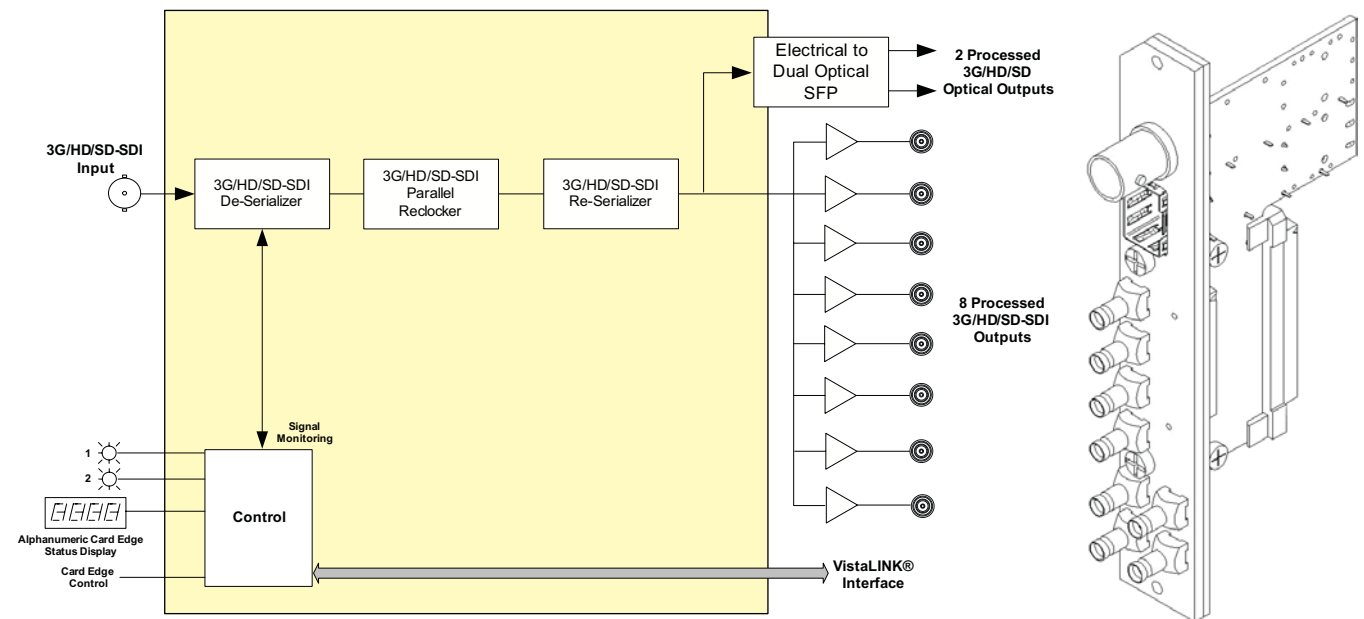
The 7800IDA8-3G-F also comes equipped with the necessary components to support an optional dual transmitting SFP module. When the SFP module is inserted into rear plate, the 7800IDA8-3G-F will provide a total output of 8 electrical copies of the main input in and also to two optical outputs of the input signal.

The 7800IDA8-3G-F is VistaLINK® capable, offering remote monitoring, control and configuration capabilities via Simple Network Management Protocol (SNMP) giving the flexibility to manage operations, including signal monitoring and module configuration from SNMP capable control systems (Manager or NMS).

The 7800IDA8-3G-F occupies 1 card slot and can be housed in the 3RU 7700FR-C, 7800FR and 7800FR-QT frames which have a 15 slot capacity. The 7700FC frame controller is required for configuration and monitoring.

### ►Features & Benefits

- 3G/HD/SD-SDI input with eight reclocked outputs
- Long reach cable performance
- Support for optional dual transmitting SFP module
- Input signal presence detection
- Real time VistaLINK® monitoring and trending
- High density approach offers 14 modules within 3RU



### ►Specifications

#### Serial Video Input:

Standard: Auto-detects standard 3 Gb/s SMPTE 424M, 1.5Gb/sec SMPTE 292M, 270Mb/s SMPTE 259M-C (525i/59.94 or 625i/50)  
Connector: BNC per IEC 61169-8 Annex A  
Input Equalization: Automatic to 100m @ 3 Gb/s, 140m @ 1.5Gb/s & 350m @ 270Mb/s  
Return Loss: > 20dB up to 270Mb/s  
> 15dB up to 1.5Gb/s  
> 10dB up to 3 Gb/s

#### Serial Video Outputs:

Standard: Same as input  
Number of Outputs: 8

Connector: Mini Din 1.0/2.3 connector  
Signal Level: 800mV nominal  
DC Offset: 0V ±0.5V  
Rise and Fall Time: 200ps nominal for 3G/HD-SDI  
900ps nominal for SD-SDI  
Overshoot: < 10% of amplitude  
Return Loss: > 20dB up to 270MHz  
> 15dB at 1.5Gb/s  
Jitter: < 0.20 UI

#### Optional SFP Optical Output:

Number of Outputs: 1 Dual Tx SFP  
Connector: LC/UPC  
Wavelength: 1310nm  
Output Power: 1310nm -2dBm ±1dBm

#### Electrical:

Voltage: +12V DC  
Power: 9W  
EMI/RFI: Complies with FCC regulations for class A devices  
Complies with EU EMC directive

#### Physical (number of slots):

7700FR-C: 1  
7800FR: 1  
7800FR-QT: 1

### ►Ordering Information

**7800IDA8-3G-F** 3G/HD/SD-SDI Intelligent 1x8 Distribution Amplifier with Fiber SFP I/O (7700FC required for configuration) (SFP module not included)

**Ordering Options** Rear plate must be specified at time of order

#### Rear Plate Suffix

**+3RU** 3RU rear plate for use with 7800FR Multiframe

#### Accessories SFP3T13-2

Evertz® Dual 1310nm SFP Transmitter Module

#### Enclosures 7700FR-C 7800FR 7800FR-QT

3RU Multiframe which holds up to 15 single slot modules

3RU Multiframe which holds up to 15 single slot modules

3RU Quiet Multiframe which holds up to 15 single slot modules