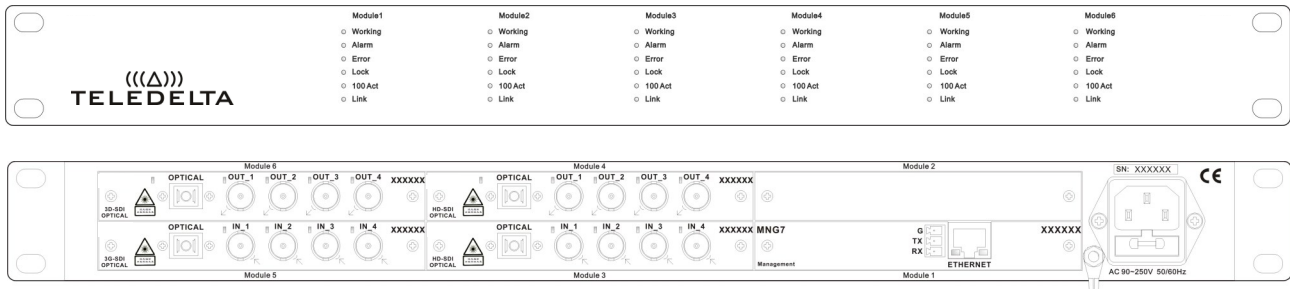


# TeleDelta Optical Series

## 3G/HD/SD-SDI Fibre Optic Transmitters and Receivers

### Global Specifications



#### Transmitter Frame

Size	1RU Rack-mount
Modules	Supports Up to 4x SDI Input Modules
Fibre Output	1~4 FC/SC Connectors
Management	IP: Remote Web Interface Front Panel: LCD operation / alarming
Power	AC 100~240V (50~60hz)
Dimensions	485x256x45mm
Weight	3.9kgs

#### Receiver Frame

Size	1RU Rack-mount
Modules	Supports Up to 4x SDI Output Modules
Fibre Input	1~4 FC/SC Connectors
Management	IP: Remote Web Interface Front Panel: LCD operation / alarming
Power	AC 100~240V (50~60hz)
Dimensions	485x256x45mm
Weight	3.9kgs

TeleDelta Optical Series complies with the following SMPTE standards

SMPTE 259M, SMPTE 344M, SMPTE 292, SMPTE 424M, DVB-ASI



## Global Specifications

### Modules

Capacity	4x 3G/HD/SD-SDI ( 2.97Ghz, 1.485Ghz, 270Mbps) Up to 4x DVB-ASI streams (270Mbps)
Connectors	SDI Connections: 4 x 75 Ω BNC ASI Connections: 4 x 75 Ω BNC Fibre Connection: FC/SC (Optional)
Power	3 pole 16 A IEC Plug

### Optical Interface (Transmitter)

	<b>1.485Gbps (HD)</b>
Input Wavelength	1270 ~ 1610nm
Transmitting power	-6dBm ~ -1dBm
Signal Loss	>9dB
Ascend / Descend Time	<0.26ns / <0.26ns

	<b>2.97Gbps (3G)</b>
Input Wavelength	1270 ~ 1610nm
Transmitting power	-8dBm ~ -0dBm
Signal Loss	>8.2dB
Ascend / Descend Time	<0.15ns / <0.15ns

### Optical Interface (Receiver)

	<b>1.485Gbps (HD)</b>
Input Wavelength	1100 ~1610nm
Scale receiver power	-21dB, ~ -3dBm
Minimum receiving power	-35dBm

	<b>2.97Gbps (3G)</b>
Input Wavelength	1100 ~1610nm
Scale receiver power	-21dB, ~ -3dBm
Minimum receiving power	-35dBm



## Global Specifications

### Electrical Interface (Transmitter)

<b>1.485Gbps (HD)</b>	
Connector	4 x 75 Ω BNC
Bit-rate Input	125 ~ 1.485Gbps to SMPTE 292M
Input Power Level	200mV ~ 950mV
Input reflection Loss	>15db, normalise 18 ~ 20dB
Cable Compensation (Belden 1694A)	200m @ 1.485Gbps, 400m @ 270Mbps

<b>2.97Gbps (3G)</b>	
Connector	4 x 75 Ω BNC
Bit-rate Input	125 ~ 2.97Gbps to SMPTE 424M
Input Power Level	200mV ~ 950mV
Input reflection Loss	>15db, @ 5Mhz ~ 1.5Ghz >10dB @ 1.5Ghz ~3.0Ghz
Cable Compensation (Belden 1694A)	120m @ 2.97Gbps, 200m @ 1.485Gbps, 400m @ 270Mbps

### Electrical Interface (Receiver)

<b>1.485Gbps (HD)</b>	
Connector	4 x 75 Ω BNC
Output Level	750mV ~ 850mV
Output reflection Loss	>15db, @ 5Mhz ~ 1.5Ghz
Output Jitter	<0.07UI

<b>2.97Gbps (3G)</b>	
Connector	4 x 75 Ω BNC
Output Level	720mV ~ 880mV
Output reflection Loss	>15db, @ 5Mhz ~ 1.5Ghz >10dB @ 1.5Ghz ~3.0Ghz
Output Jitter	<0.07UI

