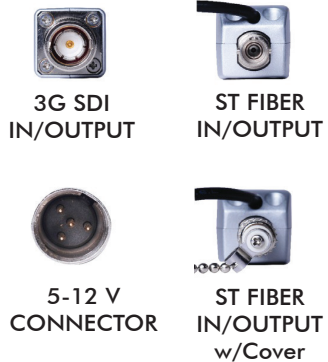


# SDI FIBER OPTIC EXTENDERS

- Input Impedance: 75 Ohm • Data Rate: up to 3 Gbps • Signal Level: 800mV (p-p) +/- 50mV
  - Optical Fiber Types: ST (Multi-mode and single-mode) • Number of Fibers: 1
    - Output Connector: BNC Female
- Distance: Up to 18 miles (30 kilometers) using single-mode fiber. Up to 1 km using multi-mode fiber
  - Propagation Delay (Sender): 1.5 ns • Propagation Delay (Receiver): 40 ns
    - Dimensions: 0.77"W x 0.77"H x 1.97"D • Power Supply: 5V DC @ 0.5 A
      - Power Budget: 16dB • Operating Temperature: -20 to +80C
    - Wavelength (Sender Unit): 1290 nm (min), 1310 nm (typ), 1330 nm (max)
    - Wavelength (Receiver Unit): 1100 nm (min), 1310 nm (typ), 1650 nm (max)

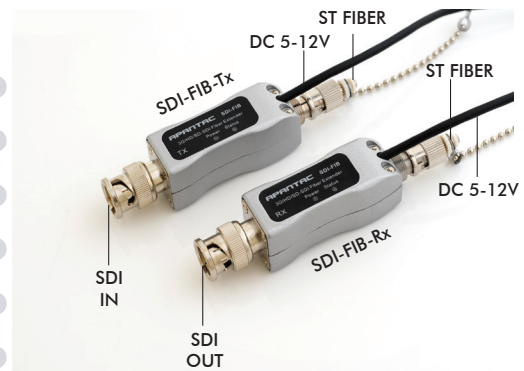
## SDI-FIB-Tx

SDI to Fiber Extender / Transmitter



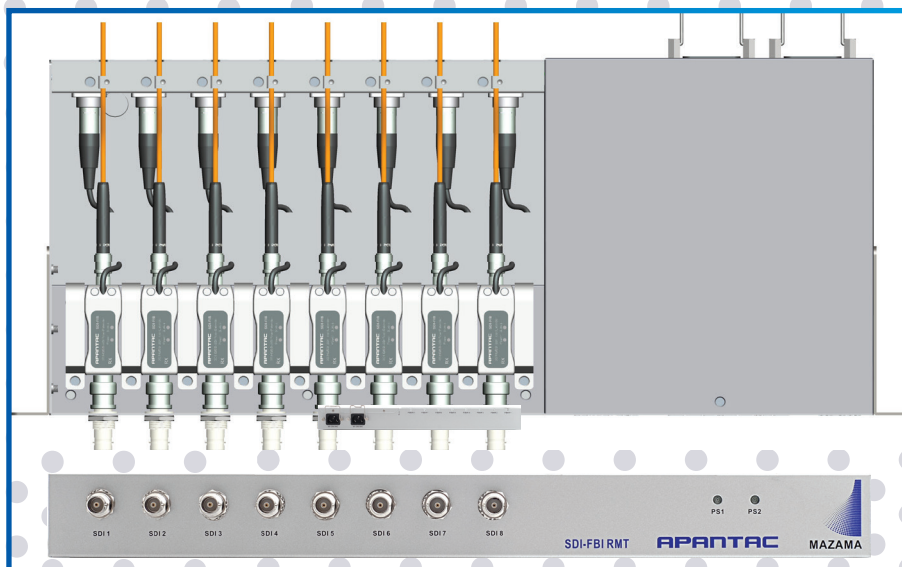
## SDI-FIB-Rx

SDI to Fiber Receiver



## SDI-FIB-RMT

19" Rackmount for up to 8 SDI-FIB Tx or Rx,  
Hot Swappable Redundant Universal Power Supplies.



MODEL	SDI-FIB-Tx	SDI-FIB-Rx	
<b>DESCRIPTION</b>	SDI to Fiber Extender Transmitter	SDI to Fiber Receiver	
<b>INPUT</b>	1 x 3G / HD / SD-SDI via 75 ohm BNC	1 x ST via Fiber	
<b>OUTPUT</b>	1 x ST via Fiber	1 x 3G / HD / SD-SDI via 75 ohm BNC	
<b>COMPONENTS</b>	1310 FP laser diode	InGaAs/InP PIN photo diode	
<b>POWER</b>	+5VDC 1.5 A (+4.5 minimum, +5.5 maximum)	+5VDC 1.5 A (+4.5 minimum, +5.5 maximum)	
<b>OPERATING TEMP.</b>	-4F (-20C) to 158F (70C)	-4F (-20C) to 158F (70C)	
<b>STORAGE TEMP.</b>	-22F (-30C) to 185F (85C)	-22F (-30C) to 185F (85C)	
<b>HUMIDITY</b>	0 to 95% RH, non-condensing	0 to 95% RH, non-condensing	
<b>DIMENSIONS</b>	19.5 x 19.5 x 50.7 (mm)	19.5 x 19.5 x 50.7 (mm)	
SDI		FIBER OPTIC	
<b>FORMAT</b>	SMPTE-424M, SMPTE-292M, SMPTE-259M	<b>FIBER TYPE</b>	SDI to Fiber Receiver
<b>SIGNAL LEVEL</b>	800mVp-p +/- 50mV (720 min – 880 max mV)	<b>CONNECTOR</b>	ST
<b>EQUALIZATION / RECLOCKING</b>	120m at 2.97 Gpbs 140m at 1.485 Gpbs 400m at 270Mbps with Belden 1694A	<b>POWER BUDGET</b>	Min 11dB
<b>RETURN LOSS</b>	>15db up to 1.5Gpbs >10db up to 3G	<b>WAVELENGTH</b>	1310 nm
<b>EMBEDDED AUDIO</b>	SMPTE-272M-A	<b>DISTANCE</b>	18 miles / 30 Km - HD 12.5 miles / 20 Km - 3G
CONDITION		FIBER OPTIC	
<b>FIBER TYPE</b>	Glass Single Mode Fiber	9.5 +/- / 125 +/- 2um	
<b>MODAL BANDWIDTH</b>	1310nm, 1550nm	Min. 400 MHz km	
<b>FIBER CABLE ATTENUATION</b>	1310nm, 1550nm	>0.3dBdb/km	
<b>NO. FERRULES</b>	ST Connector	1	
<b>SKEW</b>	SMPTE-272M-A	2%	
<b>INERTION ATTENUATION</b>	n/a	1.6%	
<b>TOTAL OPTICAL ATTENUATION</b>	n/a	30 mm	