

GMH Mini HD-SDI Fiber Link

GMH Mini fiber link includes GMHT mini optical transmitter and GMHR mini optical receiver for 1080i HD-SDI signal or 1080P HD-SDI signal over up to 80Km SM fiber. The GMH transmitter can be installed on the HD camera while GMHR optical receiver can be installed on the HD-SDI processing equipment. HD-SDI signal can be 1920x1080 30P or 60P. With built-in diplexer, GMH supports the reverse RS-485 PTZ control signal transmission over the same SM fiber. GMHT optical transmitter can work with GMHR receiver or GHCR receiver (multi HD-SDI optical receivers in 19" 1RU chassis).



Features:

- I Auto Negotiate 19.4/143/177/270/360/540/1483.5/1485Mbps and 2970Mbps
- I Complied with SMPTE424M, SMPTE292M, SMPTE310M, SMPTE259M and SMPTE344M
- I Complied with DVB-ASI (EN50083-9)
- I Cable Input Equalizer on the transmitter and clock recovery on the receiver
- I Built-in Diplexer module for single fiber reverse data transmission
- I Pathological Pattern Available on request

Specifications:

HD-SDI Input	
Input Channel	1
Input Level	>380 mV _{P-P}
Cable Input Equalization	>250m (270Mbps)(BELDEN8281) >100m(1485Mbps)(BELDEN8281) >30m(2970Mbps)(BELDEN8281)
Input Return Loss	>16dB (270Mbps), >15dB (1.485Gbps), >12dB (2.97Gbps)
Input Resistance: 75Ω	Input Connector: BNC Male
HD-SDI Output	
Output Channel Number	1
Output Level	800mV _{P-P} ±10%
Rise/Down Time	<0.8ns (270Mbps), <270ps (1485Mbps)
Jitter	<0.1UI (270Mbps), <0.2UI (1485Mbps)
Output Resistance: 75Ω	Output Connector: BNC Male

Reverse Digital Data	
RS485	0 to 400Kbps bit error rate less than 10^{-9}

Fiber Optic Parameter	
Optical Wavelength	1310nm, 1550nm or CWDM wavelength
Optical Output Power	-15dBm~+2dBm
Optical Receiving Sensitivity	-24dBm
Optical Return Loss	50dB
Fiber Optic Connector	FC/UPC or ST/UPC
Power Supply	DC 12V 1.0W
Power and Data Cable	4 counts pigtail cable with 4 PIN connector
Dimension and Weight	82mm×18mm×18mm 100g
Working Temperature	-25°C to +55°C
Humidity	5~95%RH, non-condensing

Ordering Information: GMHT-X-Y-Z-S Mini HD-SDI Fiber Optical Transmitter

GMHR-Y-Z-S Mini HD-SDI Fiber Optical Receiver

X(Fiber Distance): 2-2Km, 10-10Km, 20-20Km, 40-40Km,...

Y(Reverse Data): None-No Data, D-RS485

Z(Fiber Connector): FU-FC/UPC, ST-ST/UPC

S(Special Requirement): None-1080i 1.485Gbps; P-1080P 2.97Gbps,

PB-1080P HD-SDI supporting pathological pattern