



GigaLink HD

2.970 Gigabit HD-SDI Wireless Link



PRODUCT FEATURES

- Dual Channel - 1.485 Gbps
- Uncompressed Format
SMPTE 292M (single channel)
SMPTE 372M (dual channel)
- 3D / HDTV Production
- Point-to-Point Link
- FCC Unlicensed 60 GHz Band
- Interference Free
- Error Free
0-BER with SDI Matrix Test Pattern
- Rapid Installation
Temporary Deployments
Fixed Installations
- 99.999% Path Availability¹
- Lowest Latency in Class
- Radio Link Alignment
Optical Scope
RSSI Bar Graph Readout
- Secure Communications
Proprietary Modulation
Ultra Narrow Radio Beam
US Military Accepted
- Proven Broadcast Reliability
- All Outdoor Design
- Integrated Antenna
- Uses 12 VDC Power

HXI, a world class manufacturer of broadband digital radios, introduces the GigaLink HD, the only FCC approved unlicensed full bandwidth transport solution for SMPTE 292M and SMPTE 372M (dual channel).

The GigaLink HD is engineered to transmit and receive uncompressed production quality HD-SDI video signals. The radio link performs at 2.970 Gbps (2 x 1.485 Gbps), seamlessly extending physical connections to the video camera.

The GigaLink HD operates at Layer 1; exactly the same as fiber optic cable. This ensures the absolute lowest latency of any SMPTE 292M / SMPTE 392M radio.

With a compact design, link range of up to 500 meters, and true full-bandwidth SMPTE 292M / 372M throughput, the GigaLink HD radio platform is the perfect choice for remote broadcast locations.

SONY™ / Other Systems

Specifically developed for the SONY™ HDC and HD-CU-F950 Digital 4:4:4 CineAlta™ Professional Camera systems, but will interface transparently with any SMPTE 292M compliant production system.

Dual Channel 1.485 Gbps

The GigaLink HD is a great option for single or dual channel HD-SDI operation. It offers 2 x SMPTE 292M interfaces. It's a perfect transport solution for 2 cameras and 3D / HDTV broadcasts.

Remote Broadcast

The unlicensed GigaLink offers complete flexibility when installing a temporary or tactical SMPTE 292M / 372M point-to-point link. Easy set-up offers a rapid "fiber like" video transport solution from any remote location.

Cost Effective

GigaLink HD's hardened all outdoor design, direct camera interface, and low power consumption offers a superior value in point-to-point HD-SDI video transport.

GigaLink HD™ Specifications



Carrier Frequency	59 - 64 GHz FCC Unlicensed Band
Aggregate Data Rate	2.970 Gbps (2 x 1.485 Gbps HD-SDI)
Video / Audio Format	SMPTE 292M / 372M (dual channel)
Transport Latency	< 2 μ Sec
Video Input / Output	2 x 75 Ω BNC, Dual HD-SDI
Transmit Power	+10dBm (10mW)
Modulation	Direct Detection using NRZ (non return to zero)
Antenna Gain Beamwidth	+35dBi 5 $^{\circ}$ beam
Bit Error Rate (BER)	< 1 x 10 ⁻¹² Zero BER with Matrix Test Pattern (Pathological Pattern)
Range	500 meters
Power Input Voltage Consumption	10.5 - 17 VDC 15W via XLR4 or V-Mount BP-GL95 or Equivalent Battery
Environmental and Mechanical	
Operating Temperature	-30 $^{\circ}$ C to +60 $^{\circ}$ C (-22 $^{\circ}$ F to 140 $^{\circ}$ F)
Storage Temperature	-30 $^{\circ}$ C to +85 $^{\circ}$ C (-22 $^{\circ}$ F to 185 $^{\circ}$ F)
Relative Humidity	Up to 95%, non-condensing
Transceiver Dimensions	9.5" L x 9.5" H x 4.75" W (24 x 24 x 12 cm)
Enclosure	IPC65 Rated
Transceiver Weight	11 lbs (5 Kg)
Mount	1/4"-20 thread for tripod or wall mount
Regulatory Compliance	
FCC	Unlicensed - FCC Part 15.255 - MPT (59-66GHz)
FCC Identifier	O27-00002-30-30
Electrical	UL - UL60950, EN-60950, IEC 60950-1
EMC	EN 55022, Emissions Class A, EN 301, 489 Immunity

HXI - True Uncompressed HD-SDI Video

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HXI reserves the right to change the specifications and features listed herein without obligation.

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