



Gigalink HD

Single and Dual Channel HD-SDI Wireless Links for Fixed Applications



PRODUCT FEATURES

- Single or Dual Channel HD-SDI Transmission
- Uncompressed Format SMPTE 292M and SMPTE 372M
- Lowest Latency in Class
- Interference Free - No artifacts (“sparkle”)
- HDTV and 3D/HDTV Production
- FCC Unlicensed 60 GHz Band
- Error Free SDI Matrix Test Pattern
- Rapid Installation Temporary Deployments Fixed Installations
- 99.999% Path Availability
- Point-to-Point Link
- Radio Link Alignment Optical Scope RSSI Bar Graph Readout
- Secure Communications Proprietary Modulation Narrow Radio Beam US Military Accepted
- Proven Broadcast Reliability Based on 10+ years of digital radio link deployment by HXI
- All Outdoor Design
- Integrated Antenna
- Uses 48VDC Power from battery or AC adapter.

HXI, a world class manufacturer of broadband digital radios, introduces the Gigalink HD, the first 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 1.485 Gbps per channel, seamlessly extending physical connections to the video camera.

The GigaLink HD operates at Layer I (no encoding). This ensures the lowest latency of any SMPTE 292M/SMPTE 372M radio.

With a compact design, link range of up to 1000 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 HDCU-F950 Digital 4:4:4 CineAlta™ Professional Camera systems, but will interface transparently with any SMPTE 292M compliant production system.

Dual Channel HD-SDI

The dual channel 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 or for 3D/HDTV broadcasts.

Remote Broadcast

The unlicensed GigaLink offers complete flexibility when installing a fixed or portable SMPTE 292M/372M point-to-point link. Easy set-up offers a rapid “fiber like” video transport solution from remote locations.

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
Data Rate	1.485 Gbps HD-SDI per channel
Video/Audio format	SMPTE 292M/372M (dual channel)
Transport latency	< 5 nanoseconds (not including path length delay)
Video Inputs/ Outputs	75Ω BNC
Transmit Power	+10dBm (10mW)
Modulation	Direct detection using NRZ (non return to zero)
Antenna	
Gain	+41 dBi
Beamwidth	1° beam
Bit Error Rate	Error free with matrix test pattern (Pathological Pattern)
Range	1000 meters, (3280 Feet)
Power	
Input voltage	-40 to -57 VDC
Power Consumption	70W Max
Environmental and Mechanical	
Operating Temperature	-30° to +60° C (-22°F to 140°F)
Storage Temperature	-30° to +85° C (-22°F to 185°F)
Relative Humidity	Up to 95%, non-condensing
Mount	1/4 - 20 thread for tripod or wall mount
Regulatory Compliance	
FCC	Unlicensed - FCC Part 15.255 - MPT (59-66 GHz)
FCC Identifier	027- 00002-30-30
Electrical	UL - UL 60950, 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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