



**HLS 8451**

## HXI GigalinkLightSpeed™ 8451

- Speed of light latency
- High-Performance 1.25Gbps E-Band Radio Link
- For Light-licensed deployment
- Highest power with lowest latency in the industry

| Millimeter Wave Performance     |  | HLS 8451 Specifications   |  |
|---------------------------------|--|---|--|
| Frequency                       |  | 81.0 to 86.0 GHz  |  |
| RF Injection Power into Antenna |  | -1 version +15 to +18 dBm<br>-2 version +18 to +21 dBm<br>-3 version +21 to +24 dBm |  |
| Receive Sensitivity 10-12 BER   |  | -64 dBm   |  |
| Latency Back to Back            |  | 4 nanoseconds   |  |
| Antenna Type                    |  | 12-in. parabolic, Slip Fit Clip On  |  |
| Antenna Gain                    |  | 45 dBi  |  |
| 3-dB Beam Width                 |  | 0.70 degree   |  |
| Interfaces                      |  |   |  |
| Payload Interface               |  | Gigabit Ethernet, 1000Base-SX, 850 nm, FC connector                                 |  |
| Management                      |  | RJ-45   |  |
| Installation                    |  | 10/100 BaseT, RJ-45 modular jack  |  |
| Power                           |  | MIL-C-5015-type connector for 12- to 16-AWG three-conductor power cable             |  |
| Management                      |  |   |  |
| Installation Tools              |  | Built-in web browser-based GUI and SNMP agent                                       |  |
| Remote Monitoring               |  | via SNMP or Web browser-based GUI, self-contained in radio                          |  |

# HXI GigalinkLightSpeed™ 8451 (cont'd)



**HLS 8451**



**HLS 8451**

| <b>Regulatory Compliance</b>          |  |
|---------------------------------------|--|
| Electrical                            | UL - UL60950, EN-60950-1, IEC 609050-1               |
| EMC                                   | EN 55022, Emissions Class A, EN 301 489 Immunity     |
| Laser Safety                          | CDRH - Class 1 (21 CFR 1040 per Laser Notice No. 50) |
| <b>Power</b>                          |  |
| Input Voltage                         | -48 VDC nominal (-40 to -57 VDC)                     |
| Power Consumption                     | 70W Max. 40W operating typical                       |
| Maximum Input Current                 | 1.5 Amps maximum at turn on, heaters for cold start  |
| <b>Environmental &amp; Mechanical</b> |  |
| Operating Temperature                 | -30°C to 60°C (-22°F to 140°F)                       |
| Storage Temperature                   | -30°C to 85°C (-22°F to 185°F)                       |
| Relative Humidity                     | Up to 95%, non-condensing                            |
| Transceiver H x W x D                 | 13 x 13 x 14.7 in. (33 x 33 x 37.3 cm)               |
| Transceiver Weight                    | 18 lbs (8 kg) including antenna and mount            |

## **OPTIONS**

- AC-DC outdoor rated power supply
- Sighting scope, Picatinny rail attached to two foot antenna
- Payload: 1000 Base LX FC connector, special order
- One and two foot antennas in any combination
- Dual polarization dual radio adaptor for one and two foot antennas

## **HXI, Gigalink™ 8451 Specifications**

- Range Performance: Please specify location and we will assist with range calculations for required availability