



GigaLink 62xx
MMW Transceiver



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GigaLink® 6232/6432/6442

60 GHz Millimeter Wave for 155 Mbps (OC-3) and 622 Mbps (OC-12) with Carrier-Grade Reliability

Highest Link Reliability

GigaLink 6232/6432/6442 is a series of full-duplex point-to-point wireless bridges that offers affordable, highly reliable, short and medium range outdoor links for OC-3/STM-1 (155 Mbps) and OC-12/STM-4 (622 Mbps) interfaces. These field-proven millimeter wave transceivers represent one of the most reliable wireless solutions available today. Full duplex operation with near-zero latency ensures reliable operation and unlimited consecutive point-to-point links.

Unprecedented Cost Effectiveness

GigaLink 6232/6432/6442 systems enable customers with truly affordable broadband wireless solutions for today's last-mile applications. Since they work in the license-free 60 GHz band, there are no spectrum licenses to purchase and no expensive trenching required - this enables you to provide connectivity at a price point that will not dramatically impact CapEx and OpEx budgets.

Safety and Security

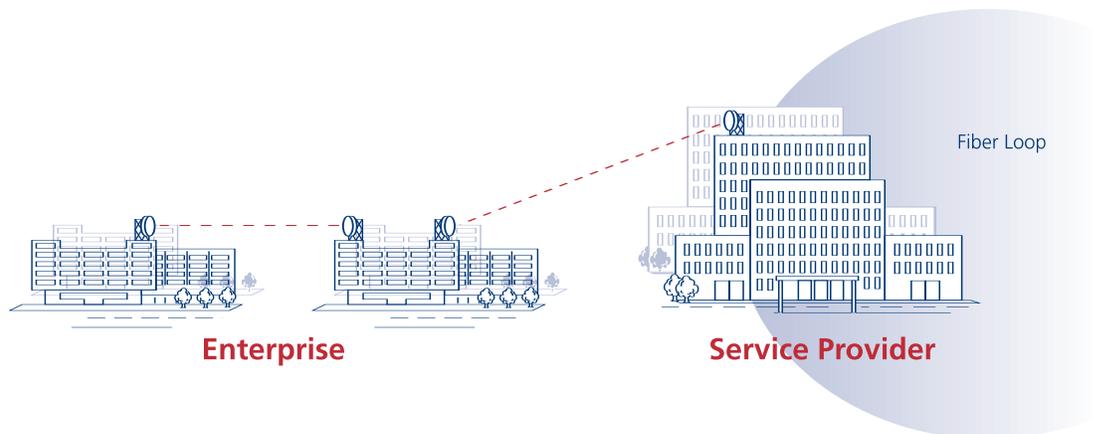
GigaLink 6232/6432/6442 systems offer outstanding safety and security. Direct exposure from a transceiver is less than 9 µW/cm (average power), and, due to the unique oxygen absorption properties of the 60 GHz spectrum, several thousand of the same frequency systems can be deployed in a ten square kilometer area without worrying about interference.

Key Features

- First FCC Part 15.255-certified millimeter wavelength system operating in the 57.05 to 64 GHz band
- OC-3/STM-1 (155 Mbps) and OC-12/STM-4 (622 Mbps) full-duplex bandwidths
- Extremely high link availability
- Narrow beamwidth increases security and enables virtually interference-free operation
- Third-generation, mature product line
- Highly cost-effective Direct Digital Modulation scheme
- Low emissions system
- Simple one-person installation and alignment
- GUI-based integrated management and SNMP capabilities
- Compact size and weight designed for outdoor deployments
- Custom network planning and link deployment tools

APPLICATIONS

- Point-to-point Wireless Bridge for OC-3 and OC-12 interfaces
- Enterprise LAN and PBX extension
- WAN connection redundancy
- ISP remote POP
- ISP direct customer connections using point-to-point
- Extension of an existing fiber network



GigaLink 6232e Specifications

High-Performance 155 Mbps MMW Transceiver

Minimum to Maximum Distance	20 m to 415 m (65 to 1361 ft) ¹
Frequency	57.05 to 64 GHz
RF Injection Power into Antenna	10 mW
Antenna Type	Integral Patch Array
Antenna Gain	28 dB
3 dB Beam width	3.5 degrees
Data Interface	Two versions available: SMF 1310 nm version, compatible with STM-1 S-1.1, OC-3 IR-1, FC connector MMF 1310 nm version, compatible with ANSI T1.105.06 OC-3 SR-0, FC connector
Management/Installation Interface	10 Base-T, RJ-45 Modular (with adapter cable)
Power Interface	NEMA 5-15P
Management/ Installation Tools	Laptop-based software provided
Remote Monitoring	SNMP V1
Electrical	UL - UL60950 (Pending) cUL - CSA C22.2 No. 60950 (Pending)
Laser Safety	CDRH - Class 1 (21 CFR 1040 per Laser Notice No. 50)
Electromagnetic	FCC - Part 15.255, Certification No. 02700000-30-30
Input Voltage	100 to 230 VAC, 50/60 Hz
Power Consumption	85 Watts
Maximum Input Current	0.85 Amp
Operating Temperature	-20°C to 60°C (-4°F to 140°F)
Storage Temperature	30°C to 85°C (-22°F to 185°F)
Relative Humidity	Up to 95% Non-Condensing
Transceiver Dimensions (H x W x D)	16 x 24 x 12 cm (6.3 x 9.4 x 4.7 in.)
Transceiver Weight	5.9 kg (13 lbs) 7.7 kg (17 lbs)
Power Module Dimensions (H x W x D)	16 x 16 x 10 cm (6.3 x 6.3 x 3.9 in.)
Power Module Weight	3.2 kg (7 lbs)
Mounting	L-Bracket and Gimbal for 2.5-in. and 4.0-in.
Standard Mount	OD Pipe or Wall Mount

¹ Under ideal operating conditions.

GigaLink 6432e Specifications

High-Performance 155 Mbps MMW Transceiver

Minimum to Maximum Distance	175 m to 1210 m (574 to 3969 ft) ¹
Frequency	57.05 to 64 GHz
RF Injection Power into Antenna	8 mW
Antenna Type	Integral 13-in. Parabolic
Antenna Gain	41 dBi
3 dB Beam width	1.0 degree
Data Interface	Two versions available: SMF 1310 nm version, compatible with STM-1 S-1.1, OC-3 IR-1, FC connector MMF 1310 nm version, compatible with ANSI T1.105.06 OC-3 SR-0, FC connector
Management/Installation Interface	10 Base-T, RJ-45 Modular (with adapter cable)
Power Interface	NEMA 5-15P
Management/ Installation Tools	Laptop-based software provided
Remote Monitoring	SNMP V1
Electrical	UL - UL60950 (Pending) cUL - CSA C22.2 No. 60950 (Pending)
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Input Voltage	100 to 230 VAC, 50/60 Hz
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Operating Temperature	-20°C to 60°C (-4°F to 140°F)
Storage Temperature	30°C to 85°C (-22°F to 185°F)
Relative Humidity	Up to 95% Non-Condensing
Transceiver Dimensions (H x W x D)	16 x 24 x 12 cm (6.3 x 9.4 x 4.7 in.)
Transceiver Weight	5.9 kg (13 lbs) 7.7 kg (17 lbs)
Power Module Dimensions (H x W x D)	16 x 16 x 10 cm (6.3 x 6.3 x 3.9 in.)
Power Module Weight	3.2 kg (7 lbs)
Mounting	L-Bracket and Gimbal for 2.5-in. and 4.0-in.
Standard Mount	OD Pipe or Wall Mount

¹ Under ideal operating conditions.

GigaLink 6442e Specifications

High-Performance 622 Mbps MMW Transceiver

Minimum to Maximum Distance	100 m to 795 m (328 to 2608 ft) ¹
Frequency	57.05 to 64 GHz
RF Injection into Antenna	8 mW
Antenna Type	Integral 13-in. Parabolic
Antenna Gain	41 dBi
3-dB Beam Width	1.0 degree
Data Interface	SMF 1310 nm version, compatible with STM-4 S-4.1, OC-12 IR-1, FC Connector
Management/Installation Interface	10 Base-T, RJ-45 Modular (with adapter cable)
Power Interface	NEMA 5-15P
Management/ Installation Tools	Laptop-based software provided
Remote Monitoring	SNMP V1
Electrical	UL - UL60950 (Pending) cUL - CSA C22.2 No. 60950 (Pending)
Laser Safety	CDRH - Class 1 (21 CFR 1040 per Laser Notice No.50)
Electromagnetic	FCC - Part 15.255, Certification No. 02700000-30-30
Input Voltage	100 to 230 VAC, 50/60 Hz
Power Consumption	85 Watts
Maximum Input Current	0.85 Amp
Operating Temperature	-20°C to 60°C (-4°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	33 x 37 x 20 cm (13.0 x 14.6 x 7.9 in.)
Transceiver Weight	7.7 kg (17 lbs)
Power Module H x W x D	16 x 16 x 10 cm (6.3 x 6.3 x 3.9 in.)
Power Module Weight	3.2 kg (7 lbs)
Mounting	L-Bracket and Gimbal for 2.5-in. and 4.0-in.
Standard Mount	OD Pipe or Wall Mount

¹ Under ideal operating conditions.