

Free Space Optics

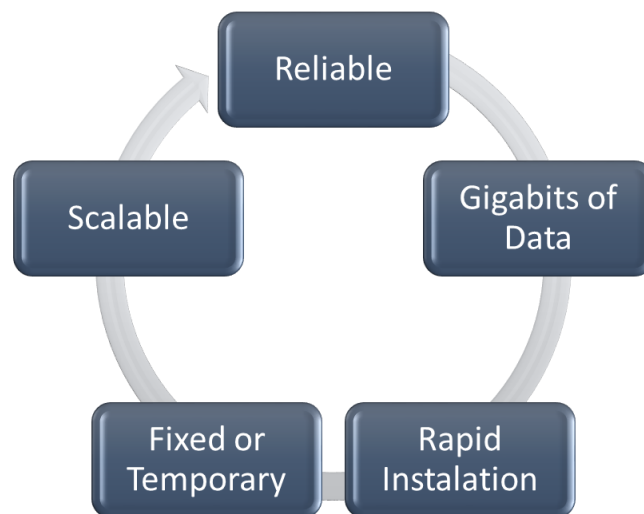
Gigabit Range



Overview

FSO Technology leverages Infrared beams for communication purposes, and unlike Fibre based systems, does so wirelessly. Speeds in excess of a Gigabit are readily available and distances of 4km are possible.

Our FSO links have been deployed in over 60 countries including major telecom and corporate networks, and have many advanced features which increase flexibility, reliability, performance, management capability and total-cost-of-ownership.



System Features

- Full-duplex bandwidth from 1.5Mbps up to 1.5Gbps
- Range variants support links up to 2,000m
- Flexible plug-in interface modules
- Fibre interfaces with SC multi- or single mode options
- Automatic Transmit Power Control (ATPC)*

Applications

- Gigabit Ethernet LAN-LAN segments
- Last-mile network connections
- Storage Area Networks
- HDTV Outside Broadcast Links

Specifications

System Variant	G200-LH	G200	G500-LH	G500	G700	G1500	G2000
Performance							
Range	200m	200m	500m	500m	700m	1500m	2000m
Bandwidth	1.5Gbps	1.5Gbps	1.5Gbps	1.5Gbps	1.5Gbps	1.5Gbps	1.5Gbps
Power Consumption	40W	40W	40W	40W	45W	45W	45W
Operating Temp	-20...+60 °C	-20...+60 °C	-20...+60 °C	-20...+60 °C	-20...+60 °C	-20...+60 °C	-20...+60 °C
ATPC	No	Yes	No	Yes	Yes	Yes	Yes
Optical Wavelength	780nm	780nm	780nm	780nm	780nm	780nm	780nm
Transmit Power	+14.8dBm	+14.8dBm	+14.8dBm	+14.8dBm	+19.0dBm	+19.0dBm	+19.0dBm
Number of Lasers	1	1	1	1	3	3	3
Beam width	8mRad	8mRad	5mRad	5mRad	8mRad	5mRad	<4mRad
Safety Classification	Class1M (IEC)	Class1M (IEC)	Class1M (IEC)	Class1M (IEC)	Class1M (IEC)	Class1M (IEC)	Class1M (IEC)
Receiver Type	APD	APD	APD	APD	APD	APD	APD
Mechanical							
Dimensions (mm)	478x233x139	478x233x139	478x233x139	478x233x139	531x391x211	531x391x211	531x391x211
Weight	4.2kg	4.2kg	4.2kg	4.2kg	9.0kg	9.0kg	9.0kg

Product No.

Product Code	Description
GX00-1000-MMSC-ATPC	1.25Gbps, Multimode SC Interface, ATPC
GX00-1000-SMSC-ATPC	1.25Gbps, Singlemode SC Interface, ATPC
GX00-1000-MMSC-LH	1.25Gbps, Multimode SC Interface, No ATPC
GX00-1000-SMSC-LH	1.25Gbps, Singlemode SC Interface, No ATPC

X: Variable Value. 1, 4, 7, 15 or 20 specify range variant. For LH versions use 1, 4 or 7 ONLY.

Accessories

Mounting Brackets:	Wall, Roof, Pole, Tower or Tripod mount options available
Indoor unit:	Indoor network termination and SNMP V2 management interface. See SmartAgent
Alignment kit:	Display of Local & Remote signal levels
Management Suite:	Full range of solutions including LinkManager™, AlarmView™, ClusterManager™, GSM modem

System Specifications

Environmental:	IP65 weather-sealed unit
Power supply:	Options for 115V ac, 230V ac, 48V dc
Alignment:	Mechanical sight, 10-stage RSSI meter, FM audio circuit & tones, handheld test set.

**Note: not applicable to 'LH' system derivations*