

Free Space Optics

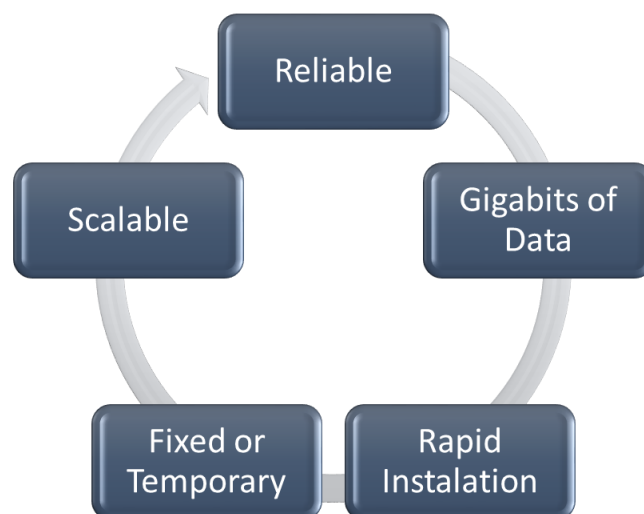
Access Range



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 155Mbps
- Range variants support links up to 4,000m
- Fully upgradable via plug-in interface modules
- Rugged environmental IP65 waterproof enclosure
- Full range of PDH & SDH Copper & Fibre interfaces
- Automatic Transmit Power Control (ATPC)*

Applications

- Wireless Voice, Data and Video transport
- Last-mile network connections
- GSM & 3G Cellular network interconnect
- Fast Roll-out & Temporary Deployment
- Fibre Resilience

Specifications

System Variant	A1000-LH	A1000	A2000	A4000
Performance				
Range	1,000m	1,000m	2,000m	4,000m
Bandwidth	100Mbps	155Mbps	155Mbps	155Mbps
Power Consumption	25-35W	25-35W	25-35W	25-35W
Operating Temperature	-25p...+60 deg C	-25p...+60 deg C	-25...+60 deg C	-25...+60 deg C
ATPC	No	Yes	Yes	Yes
Optical Wavelength	980nm	980nm	980nm	980nm
Transmit Power	+19.0dBm	+19.0dBm	+25.4dBm	+25.4dBm
Beamwidth	8mRad	8mRad	8mRad	5mRad
Safety Classification	Class 1M (IEC)	Class 1M (IEC)	Class 1M (IEC)	Class 1M (IEC)
Receiver Type	Enhanced APD	Enhanced APD	Enhanced APD	Enhanced APD
Mechanical				
Dimensions (mm)	522.5x371x211	522.5x371x211	522.5x371x211	522.5x371x211
Weight	9.0kg	9.0kg	9.0kg	9.0kg

Part Numbers

Product Code	Description
AX000-100-RJ45-ATPC	100Mbps, RJ45 Interface, ATPC
A1000-100-RJ45-LH	1km, 100Mbps, RJ45 Interface, No ATPC
AX000-100-MMSC-ATPC	100Mbps, Multimode SC Interface, ATPC
AX000-155-MMSC-ATPC	155Mbps, Multimode SC Interface, ATPC
AX000-155-SMSC-ATPC	155Mbps, Singlemode SC Interface, ATPC

X: Variable value. 1, 2 or 4 specify 1km, 2km or 4km

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*