CableFree
Wireless Excellence

Free Space Optics (FSO)

CableFree FSO 622

Overview

About Wireless Excellence

Founded in 1996 and with headquarters in Oxford UK, Wireless Excellence Limited is a leading designer and supplier of outdoor and indoor Broadband Wireless communication products.

With a complete range of solutions including Radio, Microwave, Millimeter-Wave, Free Space Optics, WiFi and 4G/LTE solutions, customers in over 80 countries have chosen Wireless Excellence as the "one stop shop" solution of choice for dependable wireless networking.

About FSO

CableFree FSO Technology uses directional beams of Infrared light for communication and does not require RF spectrum to operate. Capacity up to 1.5 Gbps and distances of up to 4km are possible depending on region. CableFree FSO links have been deployed in many countries including major telecom and corporate networks, and have many advanced features which increase flexibility, reliability, performance, management capability and total-cost-of-ownership.

Product Variants & Specs

System Variant	CF200	CF200-LH	CF500	CF500-LH	CF1000	CF1500
Performance						
Range	200m	200m	500m	500m	1,000m	1,500m
Bandwidth	622Mbps	100Mbps	622Mbps	100Mbps	622Mbps	622Mbps
Power Consumption	40W	40W	40W	40W	60W	60W
Operating Temperature	-20...+60 ˚C	-20...+60 ˚C	-20...+60 ˚C	-20...+60 ˚C	-20...+60 ˚C	-20...+60 ˚C
ATPC	Yes	No	Yes	No	Yes	Yes
Optical Wavelength	780nm	780nm	780nm	780nm	780nm	780nm
Transmit Power	+14.8dBm	+14.8dBm	+14.8dBm	+14.8dBm	+19.0dBm	+19.0dBm
Number of Lasers	1	1	1	1	3	3
Beam width	8mRad	8mRad	5mRad	5mRad	8mRad	5mRad
Safety Classification	Class 1M (IEC)	Class 1M (IEC)	Class 1M (IEC)	Class 1M (IEC)	Class 1M (IEC)	Class 1M (IEC)
Receiver Type	APD	APD	APD	APD	APD	APD
Mechanical						
Dimensions (mm)	478x233x139	478x233x139	478x233x139	478x233x139	522.5x371x211	522.5x371x211
Weight	4.2kg	4.2kg	4.2kg	4.2kg	9.0kg	9.0kg

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.

Part Numbers

Product Code	Description
CF **X** 00-100-RJ45-ATPC	100Mbps, RJ45 Interface, ATPC
CF **X** 00-100-MMST-ATPC	100Mbps, Multimode ST Interface, ATPC
CF **X** 00-155-MMSC-ATPC	155Mbps, Multimode SC Interface, ATPC
CF **X** 00-155-SMSC-ATPC	155Mbps, Singlemode SC Interface, ATPC
CF **X** 00-622-MMSC-ATPC	622Mbps, Multimode SC Interface, ATPC
CF **X** 00-622-SMSC-ATPC	622Mbps, Singlemode SC Interface, ATPC
CF **X** 00-100-RJ45-LH	100Mbps, RJ45 Interface, No ATPC
CF **X** 00- 100-MMST-LH	100Mbps, Multimode ST Interface, No ATPC

X: Variable Value. 2, 5, 10 or 15 specify range variant. For LH versions use 2 or 5 only.