

AIREBEAM™ 70-1250



OVERVIEW

The AireBeam™ 70-1250 product line offers the latest innovation in millimeter wave (MMW) point-to-point outdoor wireless network connectivity. Equipped with two different size high gain antennas the AireBeam™ system will provide highest availability for shorter and medium/longer distance applications. Under typical North American and European climate and rain conditions availability figures of 99.99% can be achieved over distances exceeding several kilometers at full duplex Gigabit Ethernet speed.

The Airebeam™ 70-1250 is targeted to Enterprise LAN customers seeking a cost-effective, easy-to-install, high-performing alternative to leased lines when connecting buildings, campuses or remote locations. Other target applications include, but are not limited to, “Last Mile” metropolitan area network (MAN) access, mobile wireless backhaul, and security/video surveillance.

With a full duplex data rate of 1250 Mbps, the Airebeam™ 70-1250 is ideal for bandwidth-intensive, mission critical applications such as Voice-over-IP, medical imaging, CAD/graphic design and video.

FEATURES AND BENEFITS

Gigabit Ethernet Throughput – 1250 Mbps, full-duplex operation, transparent optical fiber interface, LC fiber termination.

High Availability – predictable availability with up to 99.999% network uptime.

Ultra Low Latency – fiber like system latency and no packet delay due to excessive packet buffering.

Light Licensing – The Internet based light licensing process provides quick and inexpensive protection from potential future interference.

Low Voltage Design – No need for expensive high voltage power cabling and/or a certified electrician due to low voltage 48 Volt power design.

Low Power Consumption – With a total power consumption of less than 20W system uses less energy than a standard light bulb.

Secure Operation – Highest level of physical transmission security due to narrow transmission beam pattern.

Mounting Flexibility – Flexible installation by using either a pole clamp mount assembly or pan-tilt mount assembly with pedestal mounting option.

All Outdoor Design – MMW Radio module, antenna, and network interface board are fully integrated - no need for separate indoor unit and cumbersome coax RF cable connections.

Monitoring – Link status monitoring via secure outband management channel.



Data Sheet

PRODUCT SPECIFICATION**AIREBEAM™70-1250-MX****AIREBEAM™70-1250-LX**

Description	Outdoor MMW Radio transceiver with integrated high gain antenna incl. mounting/alignment bracket and power supply	
Frequency of Operation	71.125...75.875 GHz	
Transmission Power	50 mW (+17dBm)	
Modulation	ASK	
Dimensions w/o Antenna (W x L x H)	180 x 180 x 100 mm	
Antenna Size	25 cm	48 cm
Antenna Gain	43 dBi	48 dBi
Antenna Polarization	Horizontal/vertical	
Antenna HPBW	1.2°	0.7°
Unit Weight	6 kg	8 kg
Operating Voltage	48 Vdc	
Operating Temperature	-30°C to 70°C -22°F to 158°F	
Humidity Range	Up to 95% (Non-Condensing)	
Environmental/IP Rating	IP66	
Power Consumption	max. 20W	
Mounting Options	Pole mount alignment bracket or pan-tilt alignment bracket	
Mounting Pole Diameters	60...80 mm (Pole mount alignment bracket); 70 mm (Pan-tilt alignment bracket)	

NETWORKING

Protocol	802.3z (Gigabit Ethernet)
OSI Layer	Physical layer 1
Physical Interface	1000Base-SX, SFF (multimode, 850 nm, LC termination)
Data Rate	1250 Mbps, Full Duplex
Management	Outband management channel

REGULATORY COMPLIANCE

United States:	FCC Part 101 (FCC ID USPAB701000)
Europe:	CE MARK (CE1313!)
	TS 102 524 V1.1.1 (2006-07)
	EN 301 389-04 V1.3.1 (2002-08)
	EN 60950-1:2001 + A11:2004
	UK IR 2000

OTHERS

Operational Range	Dependent on rain zone of operation and availability requirement
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