

World's highest capacity system.

And, unlike competitors, 10 Gbps is transmitted from just **one** radio...not two. Plus, customers can upgrade to dual radio/20 Gbps later!

20

Gbps Link

▶ 10 Gbps+10 Gbps ◀

State of the Art Features

- High capacity & affordable 70/80 GHz backhaul radios.
- Longest distance (choice of high gain antennas).
- All-outdoor design for simple and fast installation.
- Up to 10 Gbps with one radio, and upgradeable to dual-radio 20 Gbps.
- The leading wireless backhaul solution for Enterprises, 4G/5G networks, Data Centers, ISPs, & other networks where ultra high capacity is critical for data & digital video.



Point-to-Point Connectivity

Operational range of up to ~9 miles (15 km)



1 foot/30cm

2 foot/60cm

3 foot/90cm



10 Gbps 70/80GHz Radios for PtP & Metro Rings

Since 1998 LightPointe has been the leader in wireless bridges, as competitors have come and gone. Backed by a multi-billion dollar company, LightPointe is capable of relentless innovation and advances in manufacturing, providing peace of mind and the ultimate in high performance radios. LightPointe's *AireLink 80 10Gig* system requires only one radio on each side of the link to achieve 10 Gbps full duplex data throughput, and can be upgraded later to 20 Gbps by adding a radio and dual-polarization adaptor. These solutions come with a choice of three high gain field-changeable antennas, 1 foot, 2 foot, and 3 foot, making them the longest distance, highest bandwidth radio solutions in the millimeter wave industry. Using modulations up to QAM-256 ensures very high spectral efficiency with only 2 GHz of bandwidth required. These radios are ideal for carriers and ISPs desiring a “future proof” wireless solution.

Advanced Features

- High speed full duplex transmission of up to 10 Gbps (GbE). And the system can be upgraded to 20 Gbps dual-radio configuration (40 Gbps total aggregated link capacity) by adding LightPointe's dual-polarization OMT adaptor kit for the ultimate “future proof” solution.
- World's highest capacity 70/80 GHz solutions, and backed by LightPointe.
- Multiple non-interfering frequency channels.
- Three choices of high gain field-changeable antennas (1ft/30cm, 2ft/60cm, 3ft/90cm).
- Hitless adaptive, coding and modulation to ensure highest system availability.
- Ideal for flexible network topologies (Point-to-Point, Metro Ring/Metropolitan Area Network (MAN), Mesh, Multi-Point Star Architectures).

SPECIFICATIONS

#1

MANUFACTURER OF HYBRID WIRELESS
BRIDGE SOLUTIONS SINCE 1998

- BEST SELLING
- LOWEST LATENCY
- FASTEST THROUGHPUT

ODU (Outdoor Unit)

Model	AireLink 80 10Gig	AireLink 80 10Gig+
Frequency range	71-76/81-86 GHz (E-band)	
Data Throughput	20 Gbps aggregated (10Gbps Full duplex)	
Channel Bandwidths	250..2000 MHz, ETSI compliant 250 MHz frequency grid	
Link Adaptation/Modulation	6 Levels Hitless Automatic Coding & Modulation (ACM) QAM-256, QAM-128, QAM-64, QAM-16, QPSK, BPSK	
Distance with 2ft antennas	Up to 15km (9 miles) under clear weather conditions	
Transmission Power	+ 20 dBm (max.)	+ 25 dBm (max.)
Radio Latency	Packet size dependent: min. 9 μ s (64 Byte), max. 46 μ s (9600 Byte)	
System Latency	< Radio Latency + distance in meters/300	
Max. Frame Size	Jumbo Frames up to 9600 Bytes	
Data Network Interface	Field exchangeable SFP+ (10GBase-SR/LR/ER)	
Ethernet Protocol	Transparent Ethernet Transport, Flow Control 802.3x	
Forward Error Correction	LDPC; Reed Solomon	
Radio Management	WEB based GUI, TELNET, FTP, Radio Log File and Alarm Recording, SNMP v.1/2c; Enterprise MIB	
Management Interface	100 Base-TX (RJ-45)	

Power/Environment

Voltage	36..60 Vdc
Power Consumption	40 W (+ 60 W with internal heater switched on)
Connector IP rating	IP-66 [optional IP-68]
Operational Temperature	-50°C ... + 60°C (-58°F... 140°F)
Humidity	Up to 95% , non-condensing

Antennas

Antenna Type	Cassegrain antenna		
Antenna Size	30 cm (1 foot)	60 cm (2 foot)	90 cm (3 foot)
Antenna Gain	45 dB	51 dB	54 dB
Beam Width	0.8°	0.5°	0.3°
Polarization	Vertical / Horizontal		

Physical Dimensions

Outdoor unit size w/o antenna	(250 250 110) mm (10 x 10 x 4.4) in
Weight (ODU w/o antenna)	4 kg (8.8 lbs)

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LIGHTPOINTE
WIRELESS FIBER — POINT TO POINT BACKHAUL



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