

MetroLinq™ 2.5G 60 Beamforming sector

Cloud-managed Multi-Gigabit Outdoor Base Station 60GHz PTP + 5GHz

MetroLinq™ 2.5G 60 Beamforming Sector is a powerful 60 GHz MultiPoint base-station packed with the latest technologies from IgniteNet. This new radio can achieve 2.5 Gbps capacity allowing the construction of multi-gigabit, future-proof hybrid fiber wireless networks quickly and cost-effectively. Using the latest phased array beamforming antenna design allows 120° area coverage with an improved performance when focusing the signal to a specific client when data is transmitted and received. The MetroLinq™ 2.5G 60 base-station also includes a second 5GHz radio which acts as a backup on a client by client basis to provide integrated redundancy without any additional hardware or complexity! It also has multiple client device options to choose from depending on distance, performance, and other application specific requirements.

Inteference-Free & Unlicensed Band

MetroLinq™ Base Station offers unprecedented performance - combining both the benefits of unlicensed band operation with no interference!

Dual Band 60GHz + 5GHz Operation

MetroLinq™ Base Station includes a second 5GHz radio which can be configured as a backup to the 60GHz

Ultra high capacity and beamforming

2.5 Gbps capacity and 120° beamforming sector antenna allow simple and secure extension of existing fiber networks at unmatched speed and cost.

Powerful, Flexible Configuration

MetroLinq™ Base Station can operate either as a stand-alone device or as a coordinated, cloud-managed device, easily meeting the requirements of any installation.

Robust Weather-Resistant Design

MetroLinq™ Base Station features a hybrid metal/plastic design built to withstand the harshest environments including precipitation, hot/cold weather and high/low humidities.

Client Options (Sold Separately)



MetroLinq 60-35/ 2.5G 60-35
60GHz + 5GHz
up to 700m (0.43 mi)



MetroLinq 60-19/ 2.5G 60-19
60GHz + 5GHz
up to 400m (0.25 mi)



MetroLinq LW
60GHz + 5GHz + 2.4GHz
up to 150m (0.1 mi)

Features

HARDWARE FEATURES

- > 1x 2.5 Gigabit Ethernet Port (PoE IN 24-48v)
- > 1x SFP Port
- > 1x Screw Terminal Block (DC Power IN 24-48v)
- > 1x USB 3.0 Port
- > Dual flash image support
- > IP55 standards rated enclosure

LEDs

- > Power, Ethernet, Wireless, Health/Status

DIMENSIONS (L x W x H)

- > 190 x 190 x 60 mm/ 7.48 x 7.48 x 2.36 in

WEIGHT

- > 2 kg/ 4.41 lb with mount

POWER

- > 24-48V/1A passive Gigabit PoE or DC

OPERATING ENVIRONMENT

- > Operating Temperature:
-30 to 55 C°/ -22 to 131 F°
- > Store Temperature:
-40 to 70 C°/ -40 to 158 F°
- > Operating Humidity:
10 to 90% non-condensing (RH)

REGULATORY / STANDARDS COMPLIANCE

- > FCC/IC
- > CE

RANGE

- > Up to 150m (0.09 mi)
(BF to LW, location dependent)
- > Up to 400m (0.25 mi)
(BF to 19cm, location dependent)
- > Up to 700m (0.43 mi)
(BF to 35cm, location dependent)

RF PERFORMANCE (TX)

- > 60GHz: 14dBm @ MCS9
- > 5GHz: 27dBm @ MCS0;
23dBm @ MCS15

RF PERFORMANCE (RX)

- > 60GHz: -74dBm @ MCS1;
-60dBm @ MCS9
- > 5GHz: -94dBm @ MCS0;
-72dBm @ MCS15

ANTENNA

- > 60GHz:
18dBi, 120 degrees
- > 5GHz:
15dBi, 120 degrees

KEY FEATURES

- > Support channel 4.5
- > 2.5 Gbps Aggregate throughput; dynamically allocated (60GHz)
- > Advanced 60GHz beam forming for easy alignment
- > 600Mbps Aggregate throughput; dynamically allocated (5GHz)
- > Management VLAN support and VLAN pass-through
- > Supports Service Provider and Enterprise type networks
- > Stand-alone or Cloud-controlled operating modes
- > Base Station mode and up to 8 endpoints
- > Link failover/backup (60GHz + 5GHz)
- > 128bit AES Encryption (standard; 5GHz and 60GHz)
- > SNMP Monitoring with Private MIB

APPLICATIONS

- > Fixed Wireless Access (broadband)
- > Metro Wi-Fi
- > Campus Interconnection
- > Hybrid Fiber/Wireless Networks

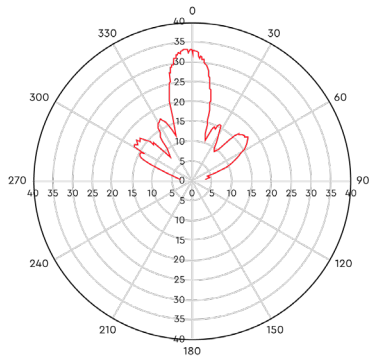
Ordering Information

Part Number	Description
ML2.5-60-BF-18-XX	2.5Gbps Outdoor Base Station 60GHz (18dBi) + 5GHz (15dBi) 120° coverage

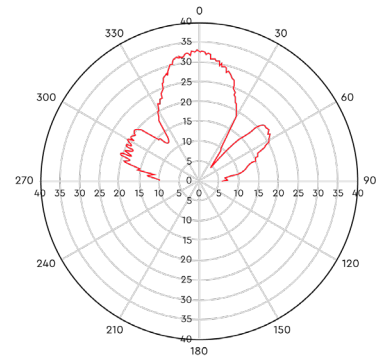
****XX is used to denote localization (US, EU, AU, CN)**

Antenna Pattern

Channel 1

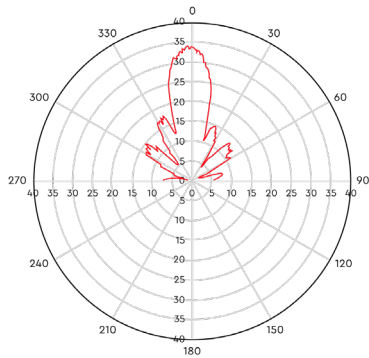


XZ Plane Polar Plot

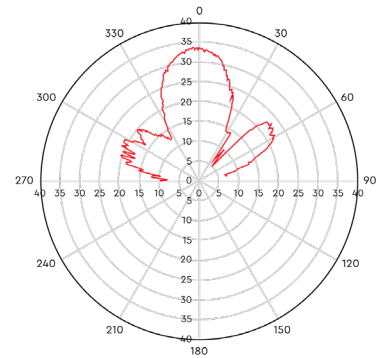


YZ Plane Polar Plot

Channel 2

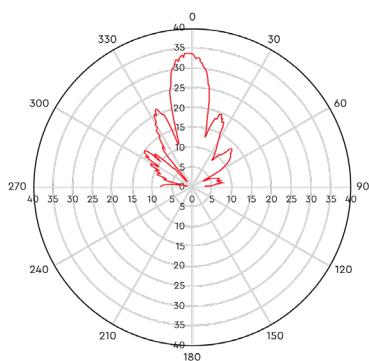


XZ Plane Polar Plot

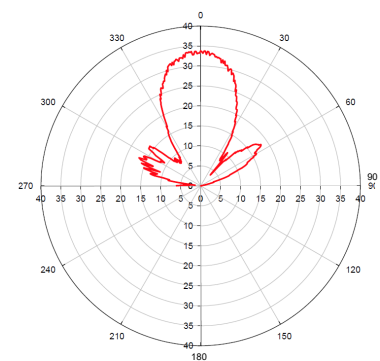


YZ Plane Polar Plot

Channel 3

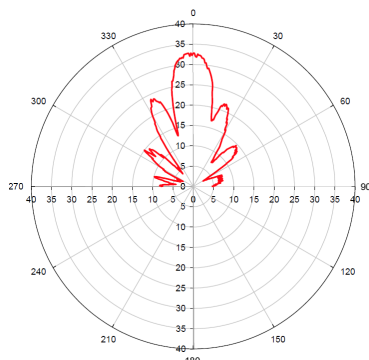


XZ Plane Polar Plot

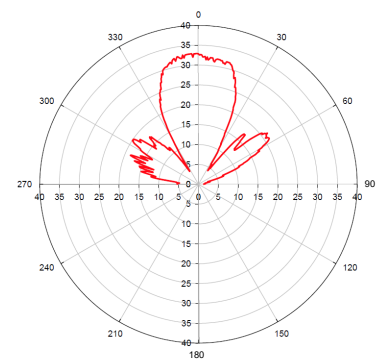


YZ Plane Polar Plot

Channel 4



XZ Plane Polar Plot



YZ Plane Polar Plot