IgniteNet™

MetroLinq™ 60 Base Station Sector
60GHz + 5GHz Outdoor Base Station Sector

CLOUD	Clear Air	PTMP	1 Gbps

Product Overview

IgniteNet™'s MetroLinq™ 60 Outdoor Base Station Sector is the world's first 60GHz MultiPoint solution available on the market. The MetroLinq™ 60 Outdoor Base Station Sector enables high capacity connections to multiple endpoints in the world-wide unlicensed 60GHz band, allowing ultra fast deployment without the hassle of other frequency bands requiring a license. The MetroLinq™ 60 Outdoor Base Station Sector 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!

Key Features and Benefits

Inteference-Free & Unlicensed Band

The MetroLinq™ 60 Outdoor Base Station Sector offers unprecedented performance - combining both the benefits of unlicensed band operation with no interference!

Dual Band 60GHz & 5GHz Operation

The MetroLinq™ 60 Outdoor Base Station Sector includes a second 5GHz radio which can be configured as a backup to the 60GHz to provide automatic failover during adverse conditions. This allows links to be extended further without effecting link availability.

Powerful, Flexible Configuration

The MetroLinq™ 60 Outdoor Base Station Sector 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

The MetroLinq™ 60 Outdoor Sector features a hybrid metal/plastic design built to withstand the harshest environments including precipitation, hot/cold weather and high/low humidities.
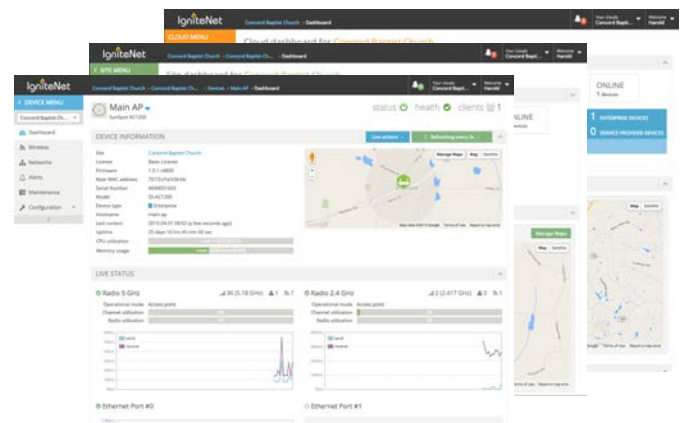
Client Options (Sold Separately)

35cm size w/ 60GHz + 5GHz   19cm size w/ 60GHz + 5GHz

Global Cloud Management

MetroLinq™ 60 BaseStation Sector

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Features

HARDWARE FEATURES

✓ 2x Gigabit Ethernet Port (PoE IN)
✓ 1x Power tap (Power OUT)
✓ 1x USB 2.0 Port (optional)
✓ Dual flash image support

LEDs

✓ Power, Ethernet, Wireless, Health/Status, Aiming

DIMENSIONS (L x W x H)

✓ 190 x 190 x 60 mm (ML-60-30-18)

WEIGHT

✓ 2 kg with mount (ML-60-30-18)

POWER

✓ 24V/1A passive Gigabit PoE
✓ 15W max power consumption

CHANNEL BANDWIDTH

✓ 60GHz: 2GHz, 500MHz (future hardware revision)
✓ 5GHz: 80MHz, 40MHz, 20MHz, 10MHz, 5MHz

OPERATING ENVIRONMENT

✓ Operating Temperature: -40ºC to +70ºC
✓ Store Temperature: -40ºC to 70ºC
✓ Operating Humidity: 10 to 90% non-condensing (RH)

REGULATORY / STANDARDS COMPLIANCE

✓ FCC/IC
✓ CE

RANGE

✓ Up to 1km (client and location dependent, see chart)

RF PERFORMANCE (TX)

✓ 60GHz:
   14dBm @2.5Gbps OTA (1Gbps aggregate throughput)
✓ 5GHz:
   24dBm @866Mbps OTA (500Mbps aggregate throughput)

RF PERFORMANCE (RX)

✓ 60GHz:
   -74dBm @ MCS1; -65 @ MCS5; -60dBm @ MCS9
✓ 5GHz:
   -94dBm @ MCS0; -64dBm @ MCS15

KEY FEATURES

✓ 1Gbps Aggregate throughput; dynamically allocated (60GHz)
✓ 500Mbps Aggregate throughput; dynamically allocated (5GHz)
✓ Jumbo packet support (up to 7912bytes)
✓ 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 32 endpoints (8 endpoints at launch)
✓ Link failover/backup (60GHz + 5GHz) Per Client
✓ 128bit AES Encryption (standard; 5GHz and 60GHz)
✓ SNMP Monitoring with Private MIB
✓ Optional Aiming Scope and LR Bracket (sold separately)

APPLICATIONS

✓ Fixed Wireless Access (broadband)
✓ 3G/4G Backhaul
✓ Metro WiFi
✓ Campus Interconnection
✓ Hybrid Fiber/Wireless Networks

Ordering Information

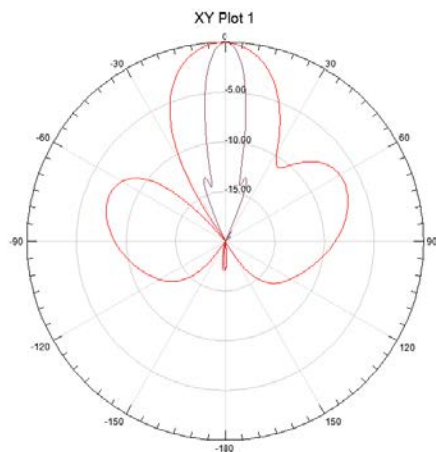| Part Number	Description
ML-60-30-18-XX	60GHz + 5GHz BaseStation w/ Integrated 18dBi (60GHz) and 14dBi (5GHz) 30º Sector Antenna

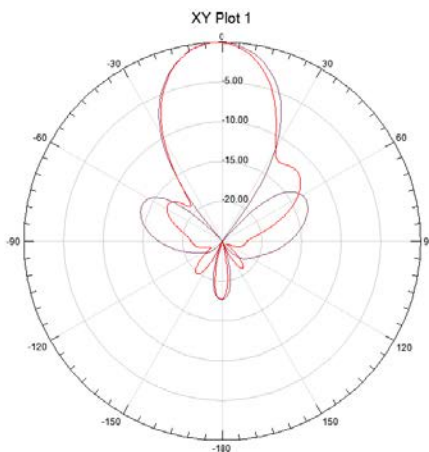****XX is used to denote localization (US, EU, AU, CN)**
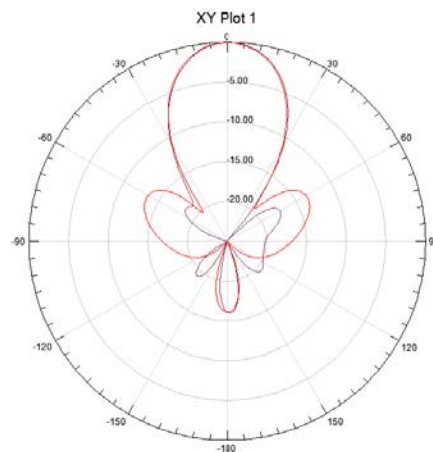
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Antenna Patterns

ML-60-30-18-XX

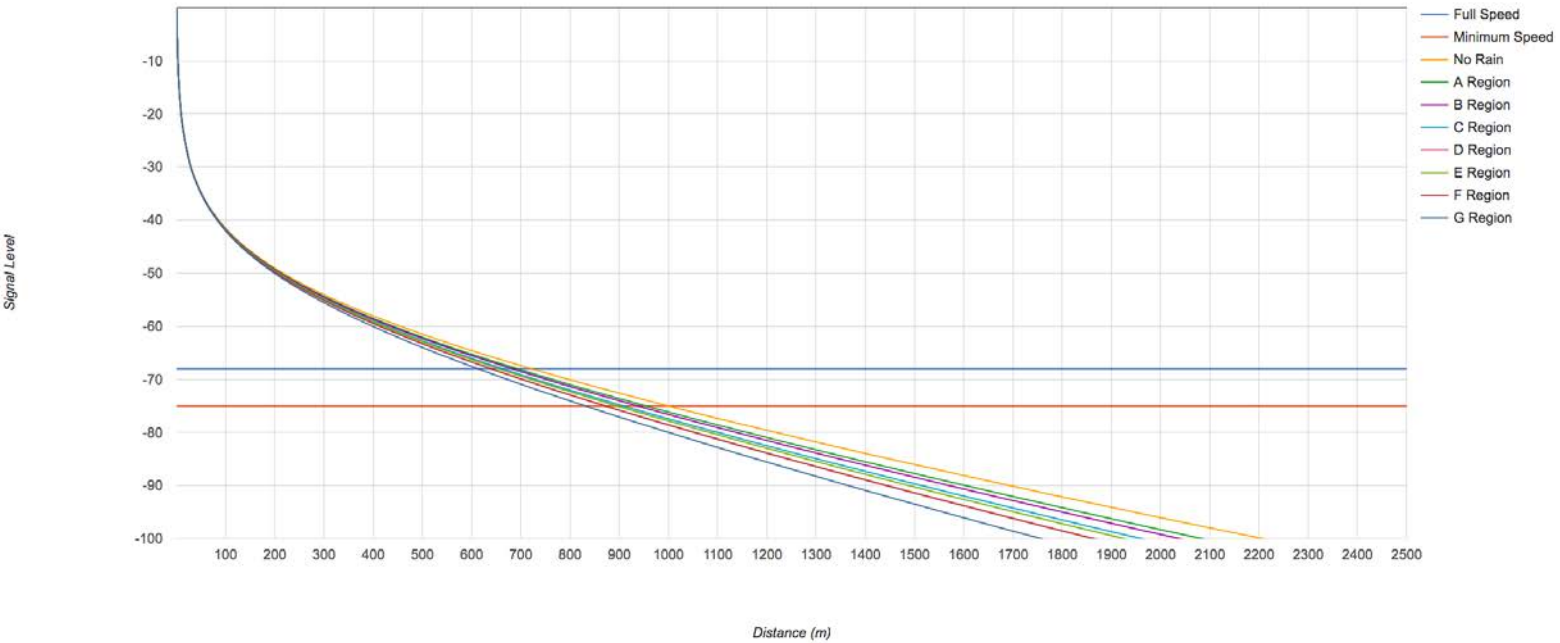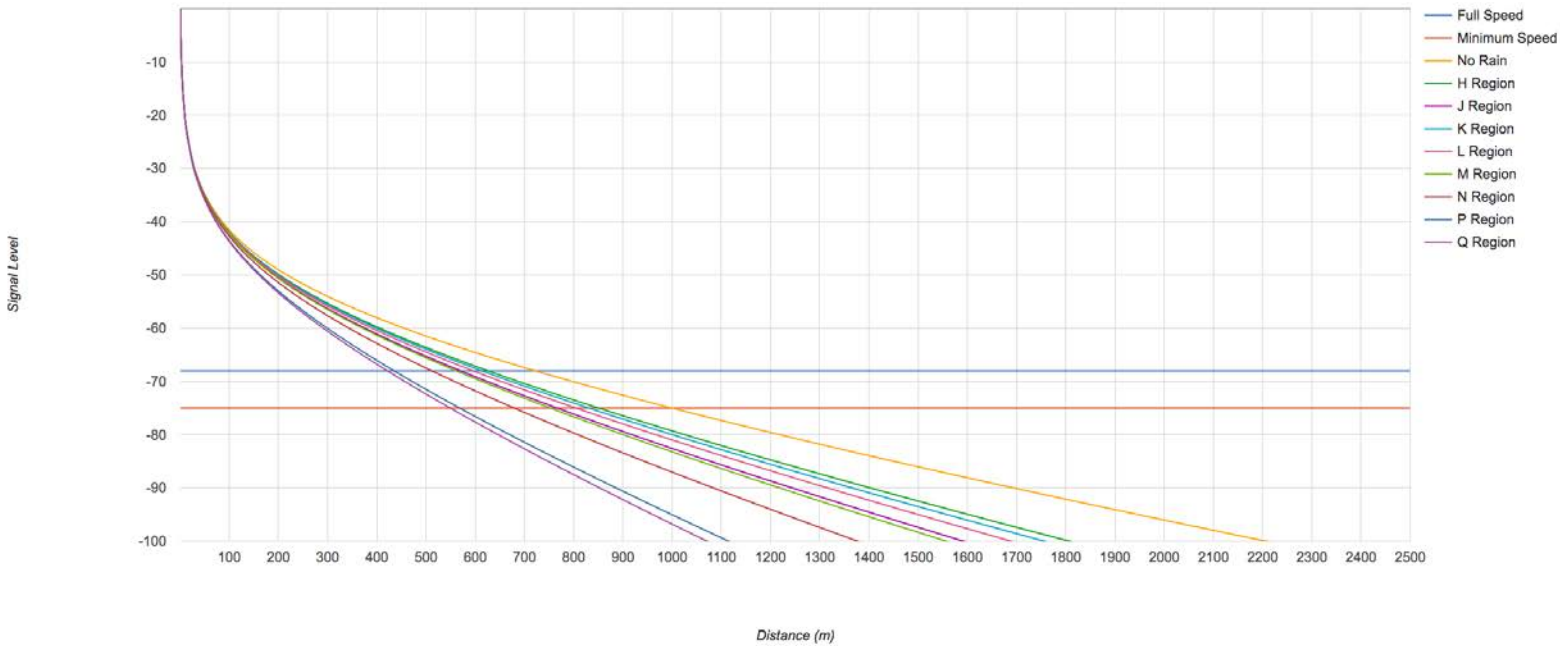| 60GHz	5GHz Vertical	5GHz Horizontal

Availability Chart

ML-60-19-XX as Client, 99.9% Availability

MetroLinq Availability vs. Distance (ML-60-S-30-18 to ML-60-19), A-G, 99.9%

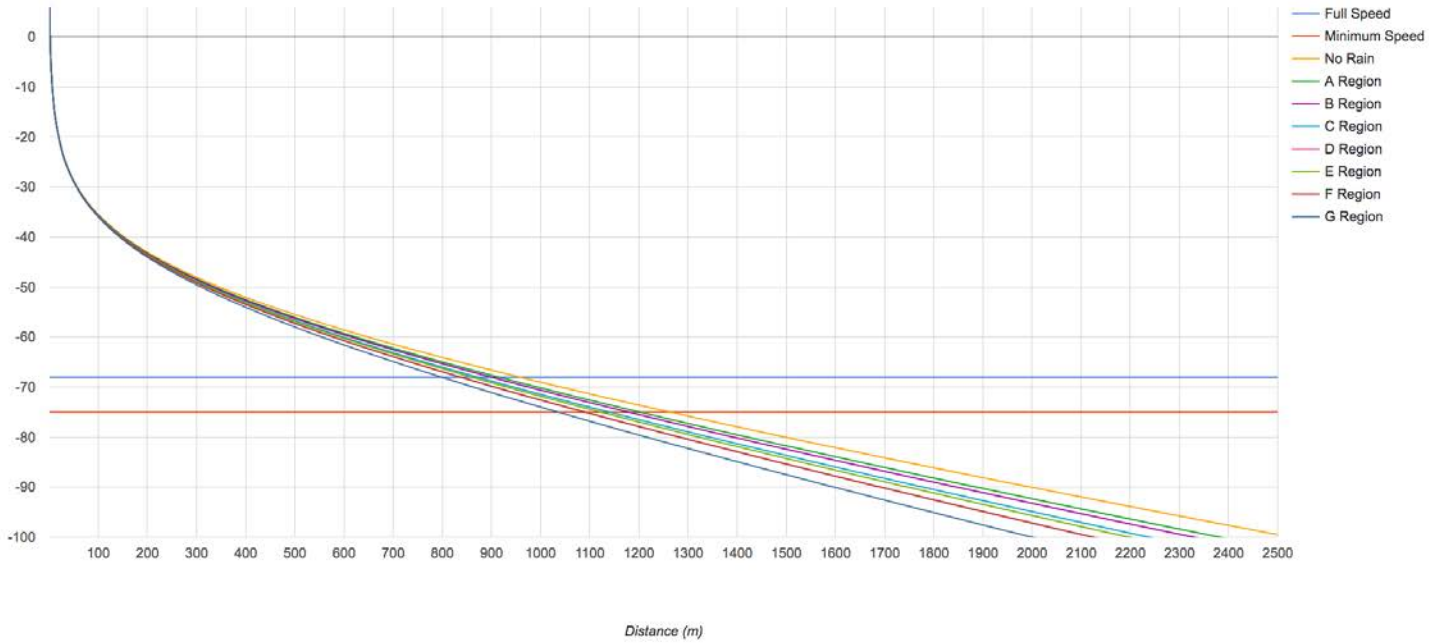MetroLinq Availability vs. Distance (ML-60-S-30-18 to ML-60-19), H-Q, 99.9%
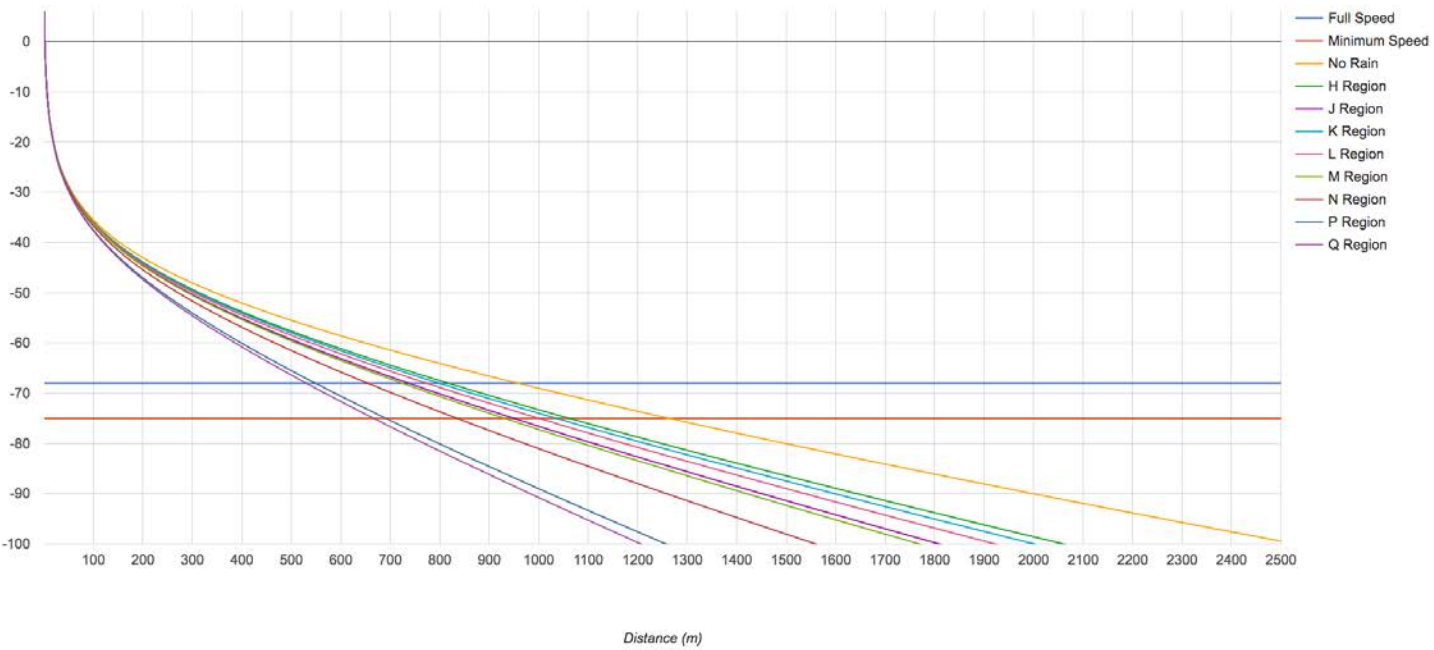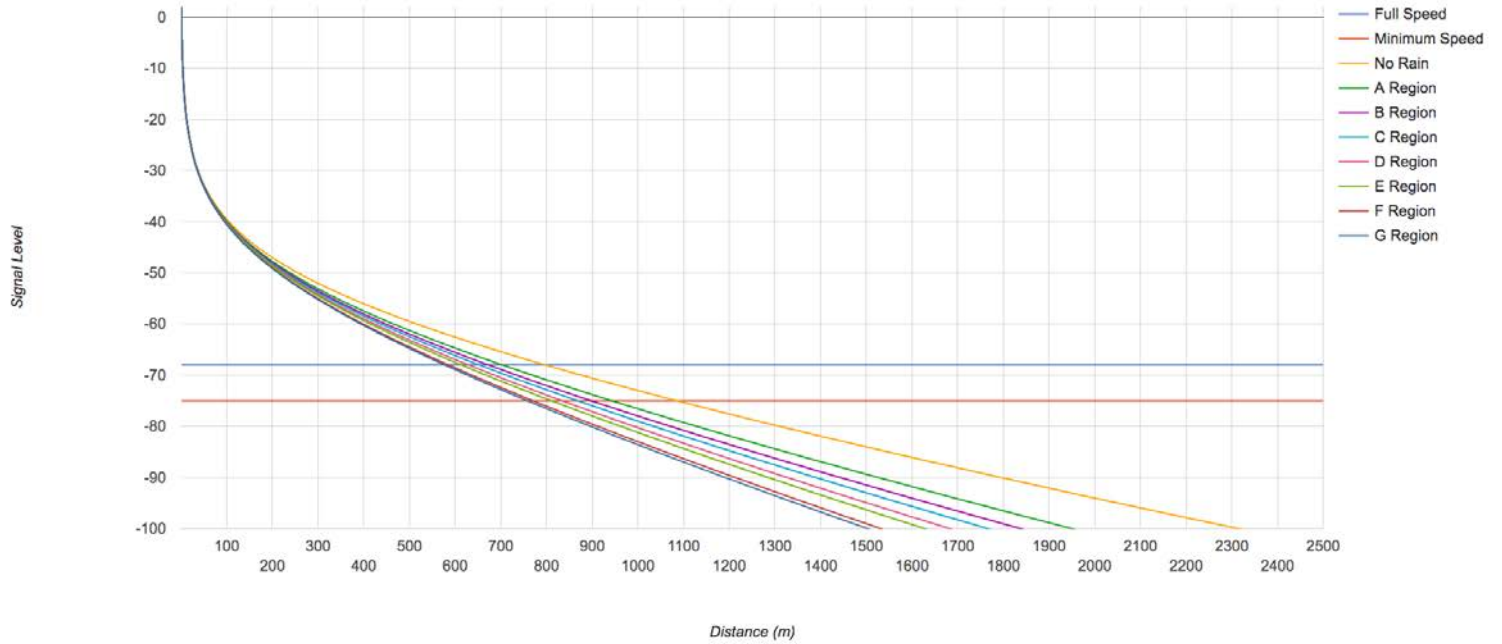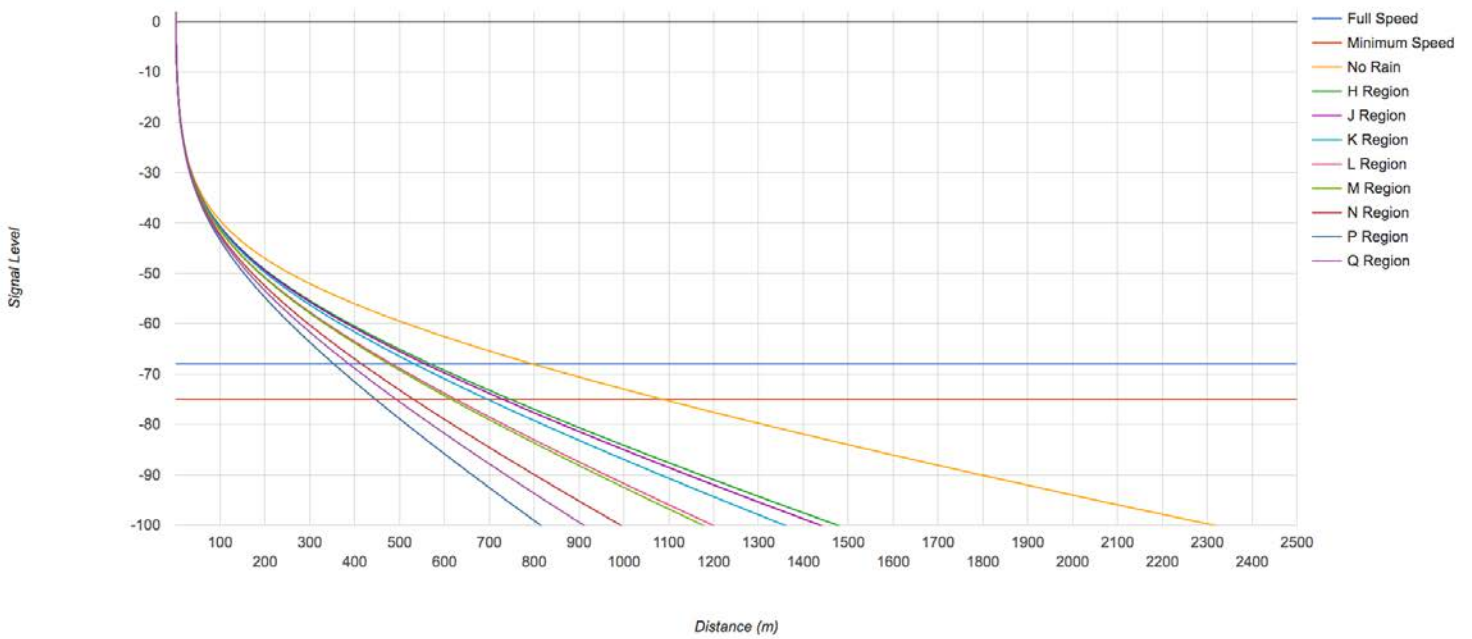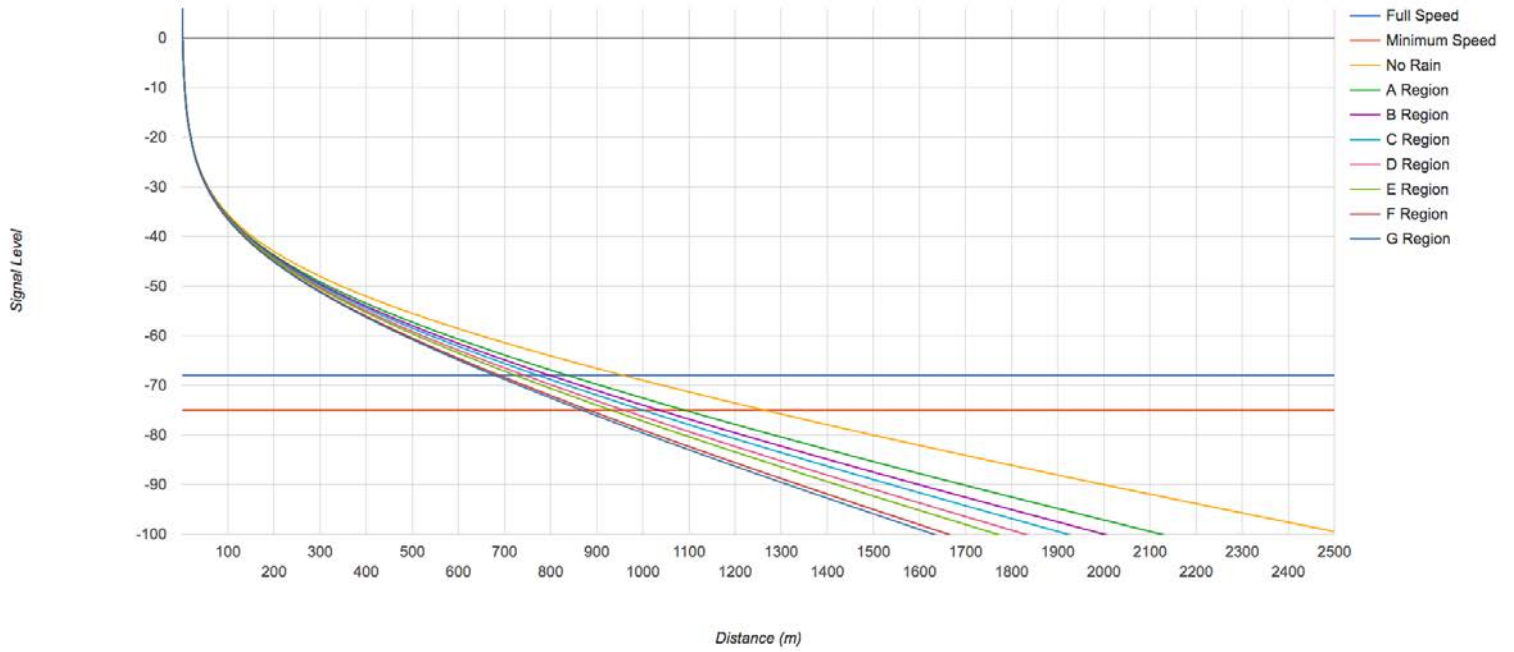

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Availability Chart

ML-60-35-XX as Client, 99.9% Availability

MetroLinq Availability vs. Distance (ML-60-S-30-18 to ML-60-35), A-G, 99.9%

Legend:
- Full Speed
- Minimum Speed
- No Rain
- A Region
- B Region
- C Region
- D Region
- E Region
- F Region
- G Region

MetroLinq Availability vs. Distance (ML-60-S-30-18 to ML-60-35), H-Q, 99.9%

Legend:
- Full Speed
- Minimum Speed
- No Rain
- H Region
- J Region
- K Region
- L Region
- M Region
- N Region
- P Region
- Q Region

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Availability Chart

ML-60-19-XX as Client, 99.99% Availability

MetroLinq Availability vs. Distance (ML-60-S-30-18 to ML-60-19), A-G, 99.99%

Legend: Full Speed, Minimum Speed, No Rain, A Region, B Region, C Region, D Region, E Region, F Region, G Region

MetroLinq Availability vs. Distance (ML-60-S-30-18 to ML-60-19), H-Q, 99.99%

Legend: Full Speed, Minimum Speed, No Rain, H Region, J Region, K Region, L Region, M Region, N Region, P Region, Q Region
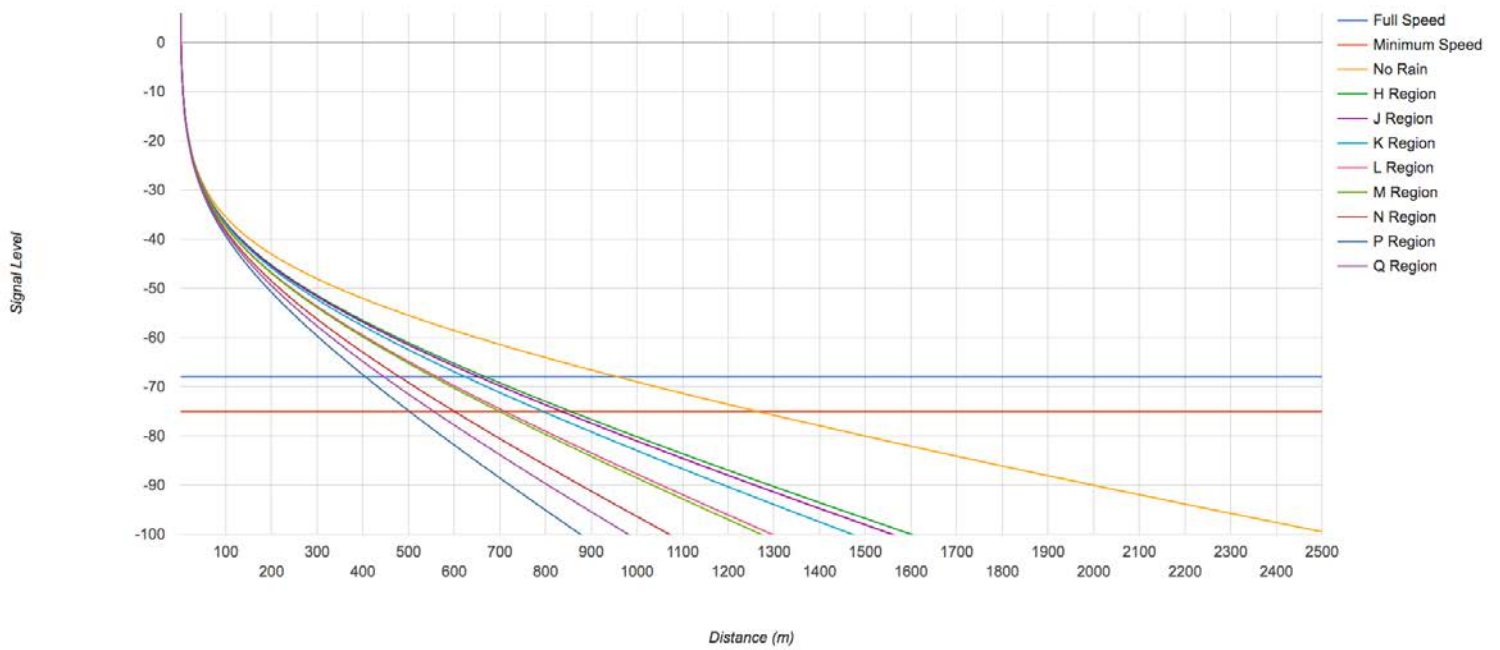
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Availability Chart

ML-60-35-XX as Client, 99.99% Availability

MetroLinq Availability vs. Distance (ML-60-S-30-18 to ML-60-35), A-G, 99.99%

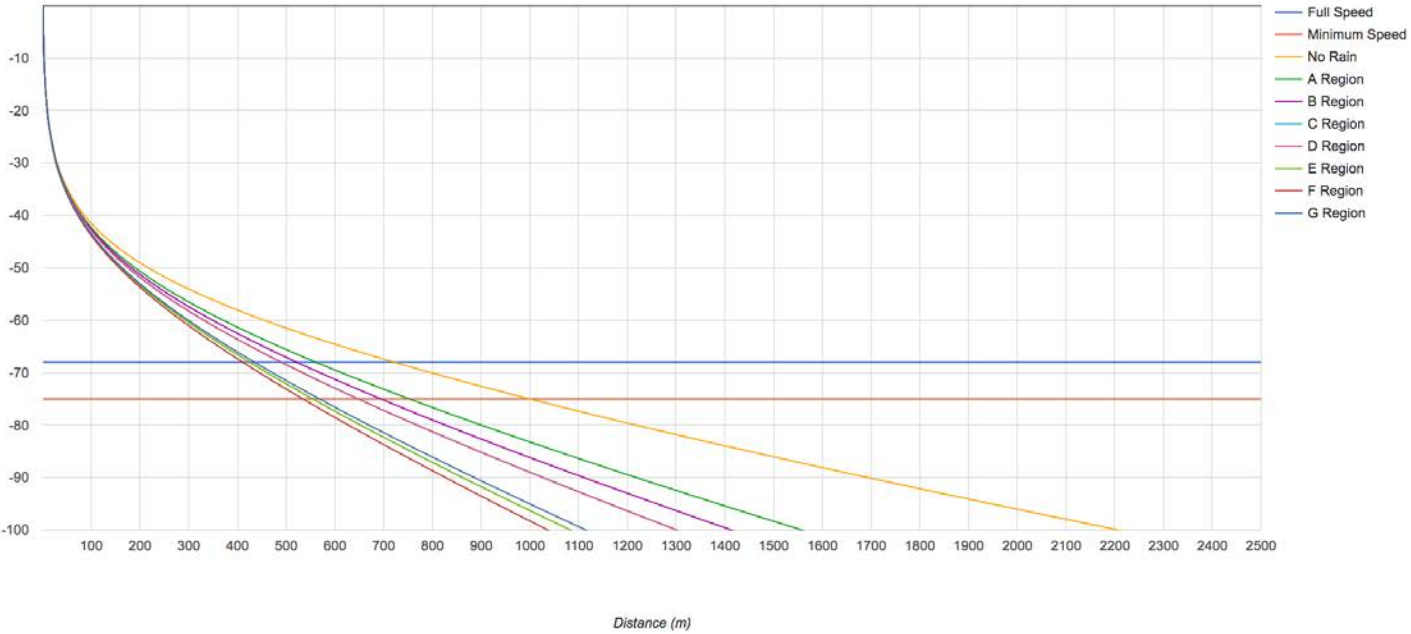MetroLinq Availability vs. Distance (ML-60-S-30-18 to ML-60-35), H-Q, 99.99%
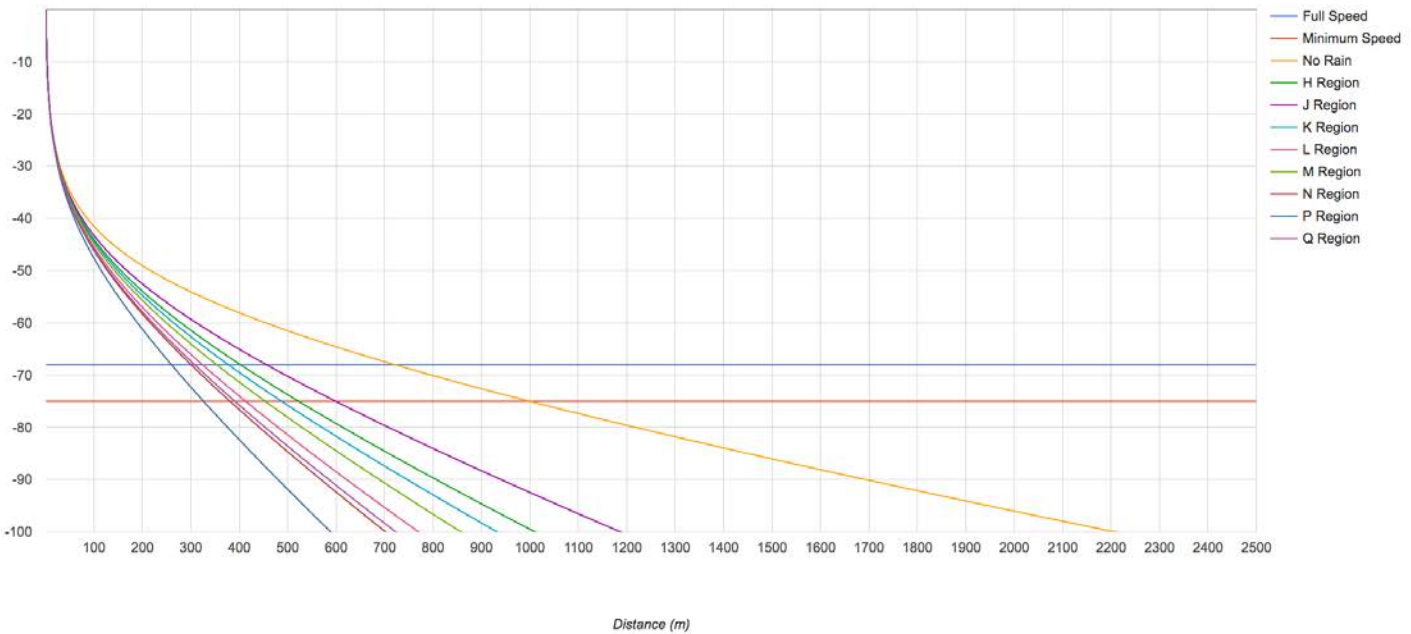
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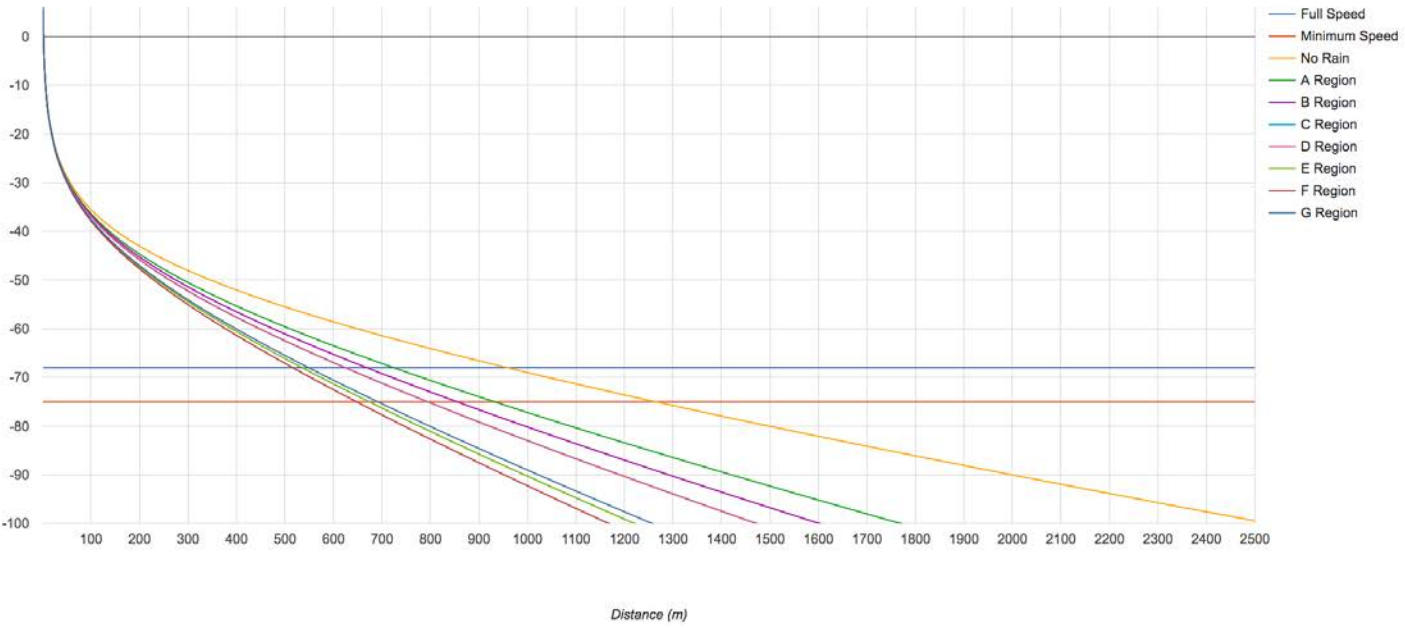MetroLinq Availability vs. Distance (ML-60-S-30-18 to ML-60-19), H-Q, 99.999%
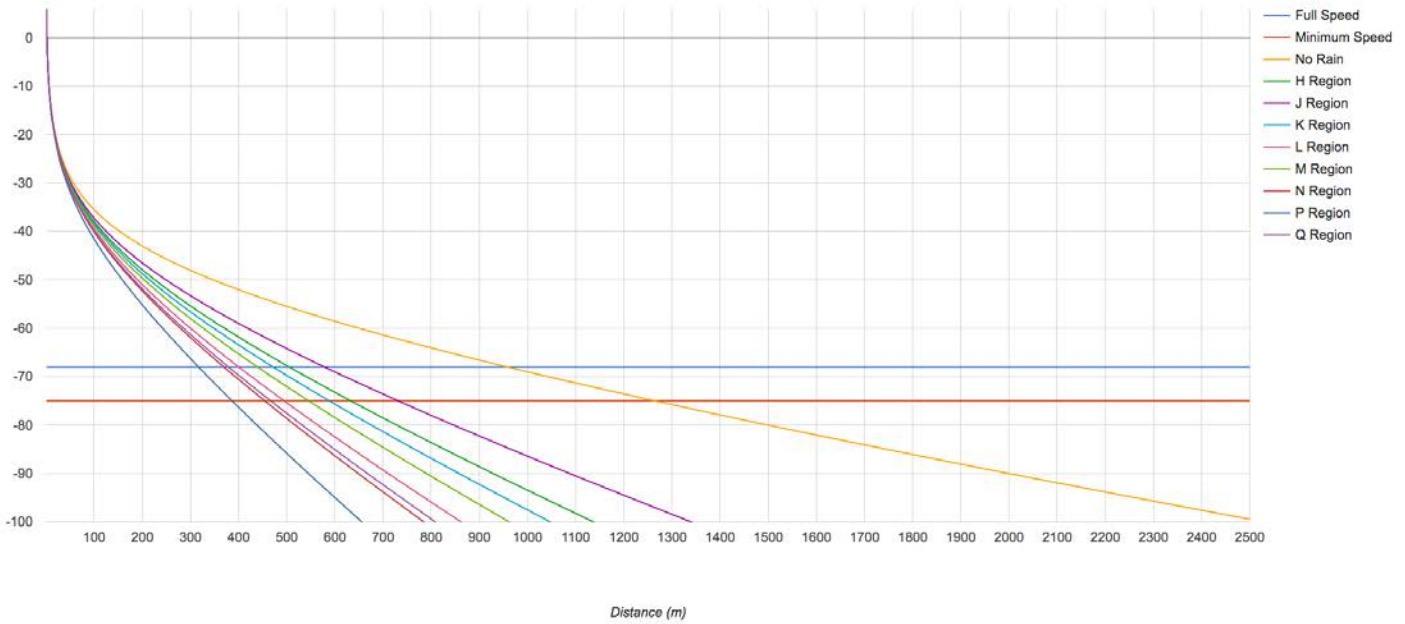
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Availability Chart

ML-60-35-XX as Client, 99.999% Availability

MetroLinq Availability vs. Distance (ML-60-S-30-18 to ML-60-35), A-G, 99.999%

MetroLinq Availability vs. Distance (ML-60-S-30-18 to ML-60-35), H-Q, 99.999%

Contact