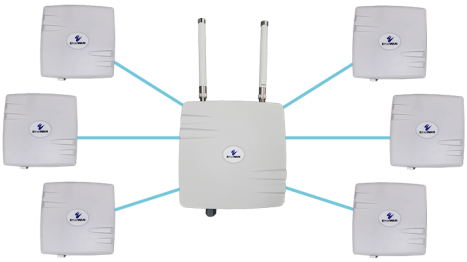
EasyLink MP

Preconfigured Multipoint IP67 Wireless Bridge Kit



Overview

EtherWAN's EasyLink is a pre-configured Multipoint Bridge kit which allows for connecting a set of remote locations wirelessly up to 2 miles away. EasyLink MP's simple setup allows you to connect locations by mounting the hardware, powering them on, and aligning the units using the built-in alignment LEDs. Each kit contains one central bridge unit plus two/four/six auxiliary units that connect automatically using a highly secure, unique, and hidden SSID and randomly generated passphrase to keep your valuable equipment secure right out of the box. No need for complicated setup software, just plug it in, aim it and you are connected.

EtherWAN — "When Connectivity is Crucial."

Highlights

Easy

Mount units to a pole or wall using included mount kit
Signal strength LED's for easy alignment
Just power and align using supplied PoE injectors and power supplies
No technical expertise needed

Highly Secure

Encrypted & Authenticated Wireless Connection (WPA2)
Every kit has unique SSID and security settings
Management Frame Protection (MFP) enabled

Hardened-Grade for Outdoor & Harsh Environments

Fanless and ruggedized outdoor IP67 enclosure (Rainproof)
Wide operating temperature range (-40 to 167°F)
Connections up to 2 miles away

Hardware Specifications

Wireless

Frequency 5 GHz

Max data rate 300 Mbit/s

Number of chains: 2 per unit

Standards 802.11a/n

WPA2 Passphrase

256-bit AES-CCM Encryption

Dynamic Frequency selection

Layer 2 Features

Auto-negotiation for port speed and duplex

Redundant Protocols (always enabled)

- IEEE 802.1D STP
- IEEE 802.1w RSTP
- IEEE 802.1s MSTP

Technology

Standards

- IEEE 802.3 10BASE-T
- IEEE 802.3u 100BASE-T
- IEEE 802.3ab 1000BASE-T
- IEEE 802.3x full duplex and flow control
- IEEE 802.1D STP
- IEEE 802.1s MSTP
- IEEE 802.1w RSTP
- IEEE 802.11w Management Frame Protection (MFP)

Power

- Primary Node:
  PoE in (Active PoE 802.3at/bt)
  Max power consumption 17W
- Auxiliary Node:
  PoE in (Passive PoE)
  PoE in input Voltage 6-30V
  Max power consumption 11W

Physical

Primary Node

Dimensions

- 270 x 565 x 76mm (W x H x D)
- 10.63” x 22.25” x 3”

Weight (shipping)

- 6.2lbs (2.81kg)

Installation Type

- Pole/Wall

Casing Material

- UV Protected Polystyrene case

Auxiliary Node

Dimensions

- 185 x 185 x 63.5mm (W x H x D)
- 7.28” x 7.28” x 2.5”

Weight (shipping)

- 2 units per box: 7.15lbs (3.25kg)

Installation Type

- Pole/Wall

Casing Material

- UV Protected Polystyrene case

Interface

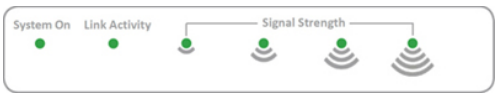
Ethernet

- Primary Node: 10/100/1000BASE-T Passive PoE
- Auxiliary Node: 10/100/1000BASE-T

Wireless

- 802.11a/n

LED Indicators



Environmental

Operating Temp.

- -40 to 75°C (-40 to 167°F)

Storage Temp.

- -45 to 85°C (-49 to 185°F)

Relative Humidity

- 5% to 95% (non-condensing)

Wind Survivability

- 200km/h

Regulatory

ISO

- Manufactured in ISO-9001 facility

EMI

- FCC Part 15B Class A
- PCC Part 15C

Environmental Test Compliance

IEC 60068-2-6 Fc (Vibration Resistance)

EN 61000-4-3 (Radiated RFI)

Warranty

Length

- 3 years

Details

- https://etherwan.com/support/warranty-policy

Application

Unit Connected

Unit Mounted

Wall Mounted

Adjustment:
180° Horizontal
30° Vertical

(Wall mount screws and anchors not included)

Pole Mounted

Side View

0.25" - 2.0" OD pole supported

Back View

Antenna

Auxiliary Node Performance

VSWR

- < 2.0@ 5-5.9GHz

Dual polarized

- Horizontal & Vertical

High gain

- Up to 13dBi

Front to Back Ratio

- >20dB

Port isolation

- >30dB

Auxiliary Node Electrical Specification

Frequency Range

- 5-5.9 GHz

Gain

- 13dBi typ.

Polarization

- Dual linear-V & H

Beamwidth Horizontal

- 37 deg@ -3dB

Beamwidth Vertical

- 37 deg @ -3dB

VSWR

- <2.0 typ.

Impedance

- 50 Ohm

RF Interface

- 2 x SMA Female

Front-to-Back Ratio

- >20dB

Port-to-Port Isolation

Primary Node Specifications

VSWR

- 2.5: 1 Max.

Polarization

- Linear & Vertical

Peak gain

- 8 dBi

Average gain

- 6 dBi

Frequency range

- 5150 - 5875 MHz

Power handling

- 2W (cw)

Impedance

- 50 Ω

Connector

- N PLUG

Primary Node Environmental & Mechanical Characteristics

Temperature

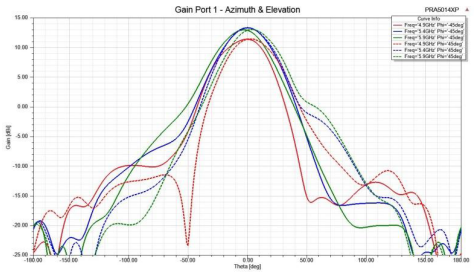
- -40°C to +85°C

Humidity

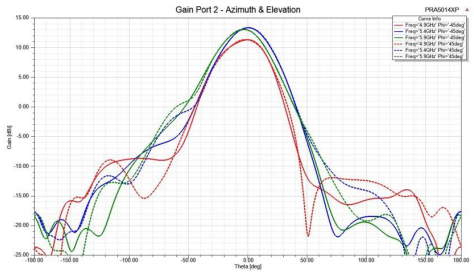
- 90% @ 25°C

Primary Node Omni-directional Antenna

Gain - Azimuth & Elevation - Port 1

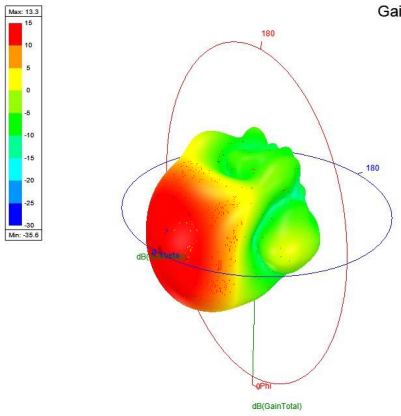


Gain - Azimuth & Elevation - Port 2

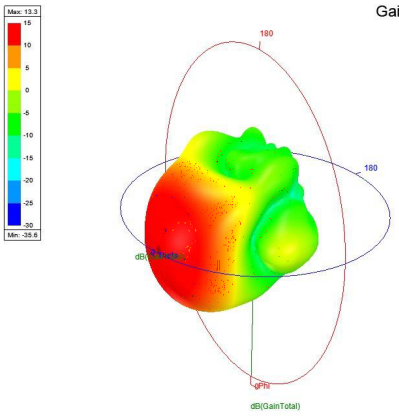


Auxiliary Node Panel Antenna

3D Gain - Port 1



3D Gain - Port 2



Ordering Info

Model

EasyLink-300-US-MP-02	2 paired Wireless Bridge Clients and 1 Wireless Bridge Base unit, 3 x 24VDC, 1.5A Power Supplies, 3 x Passive PoE Injectors and 3 x Mounting kits.
EasyLink-300-US-MP-04	4 paired Wireless Bridge Clients and 1 Wireless Bridge Base unit, 5 x 24VDC, 1.5A Power Supplies, 5 x Passive PoE Injectors and 5 x Mounting kits.
EasyLink-300-US-MP-06	6 paired Wireless Bridge Clients and 1 Wireless Bridge Base unit, 7 x 24VDC, 1.5A Power Supplies, 7 x Passive PoE Injectors and 7 x Mounting kits.

Accessories

EW-JPole18	18" Wall Mount J-Pole
EasyLink-PSU-INJ	Replacement Power Supply and Gigabit Passive PoE Injector for EasyLink Wireless Bridge Series
Cable 3	3’ Shielded Twisted Pair CAT 6 Cable with UV Resistant Coating
Cable 25	25' Shielded Twisted Pair CAT 6 Cable with UV Resistant Coating
Cable 50	50' Shielded Twisted Pair CAT 6 Cable with UV Resistant Coating
Cable 150	150' Shielded Twisted Pair CAT 6 Cable with UV Resistant Coating
Cable 300	330' Shielded Twisted Pair CAT 6 Cable with UV Resistant Coating
EPOW-24-60-A	Hardened Power Supply rated for use in temperatures -40 to 167°F
PoEPowerEZ	PoE Switch to EasyLink Adapter Hardened -40 to 165°F (Eliminates the need for a power supply)

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