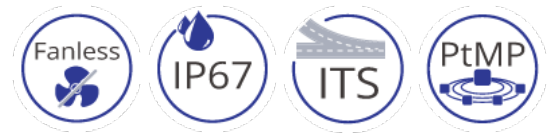
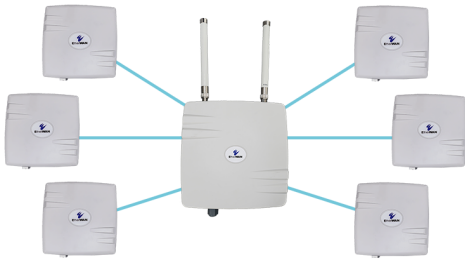


# EasyLink MP

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



Back View

0.25" - 2.0" OD pole  
supported

## 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**

>30dB

### + 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  $\Omega$

**Connector**

N PLUG

### + Primary Node Environmental & Mechanical Characteristics

**Temperature**

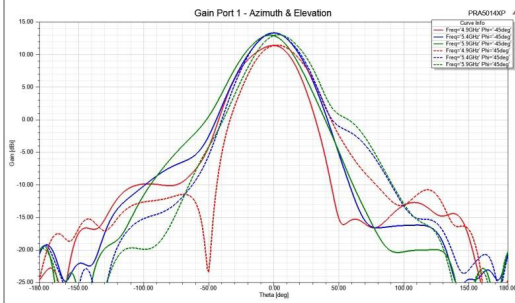
-40°C to +85°C

**Humidity**

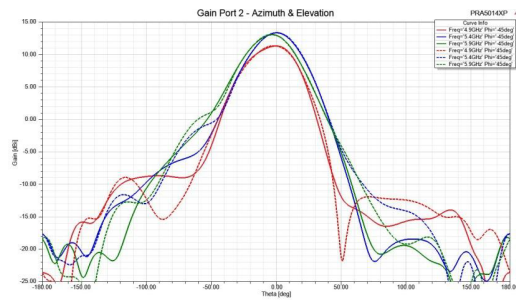
90% @ 25°C

## + Primary Node Omni-directional Antenna

### + Gain - Azimuth & Elevation - Port 1

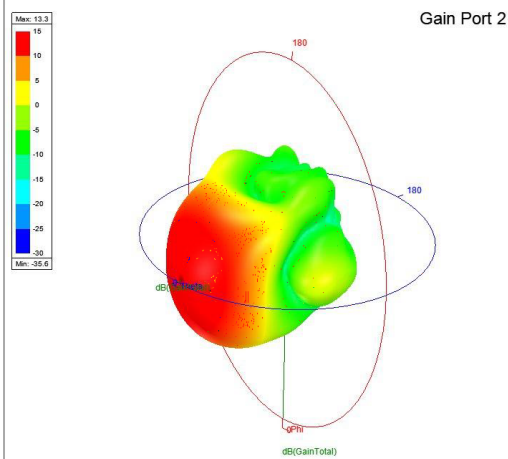


### + Gain - Azimuth & Elevation - Port 2

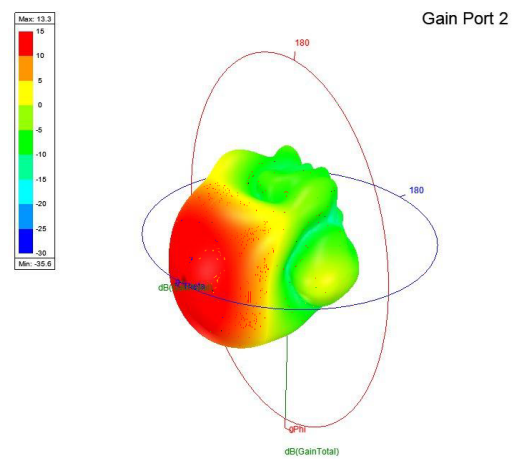


## + Auxiliary Node Panel Antenna

### + 3D Gain - Port 1



### + 3D Gain - Port 2



## Ordering Info

### + Model

<b>EasyLink-300-US-MP-02</b>	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.
<b>EasyLink-300-US-MP-04</b>	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.
<b>EasyLink-300-US-MP-06</b>	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

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

