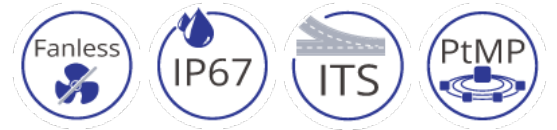# EasyLink MP

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
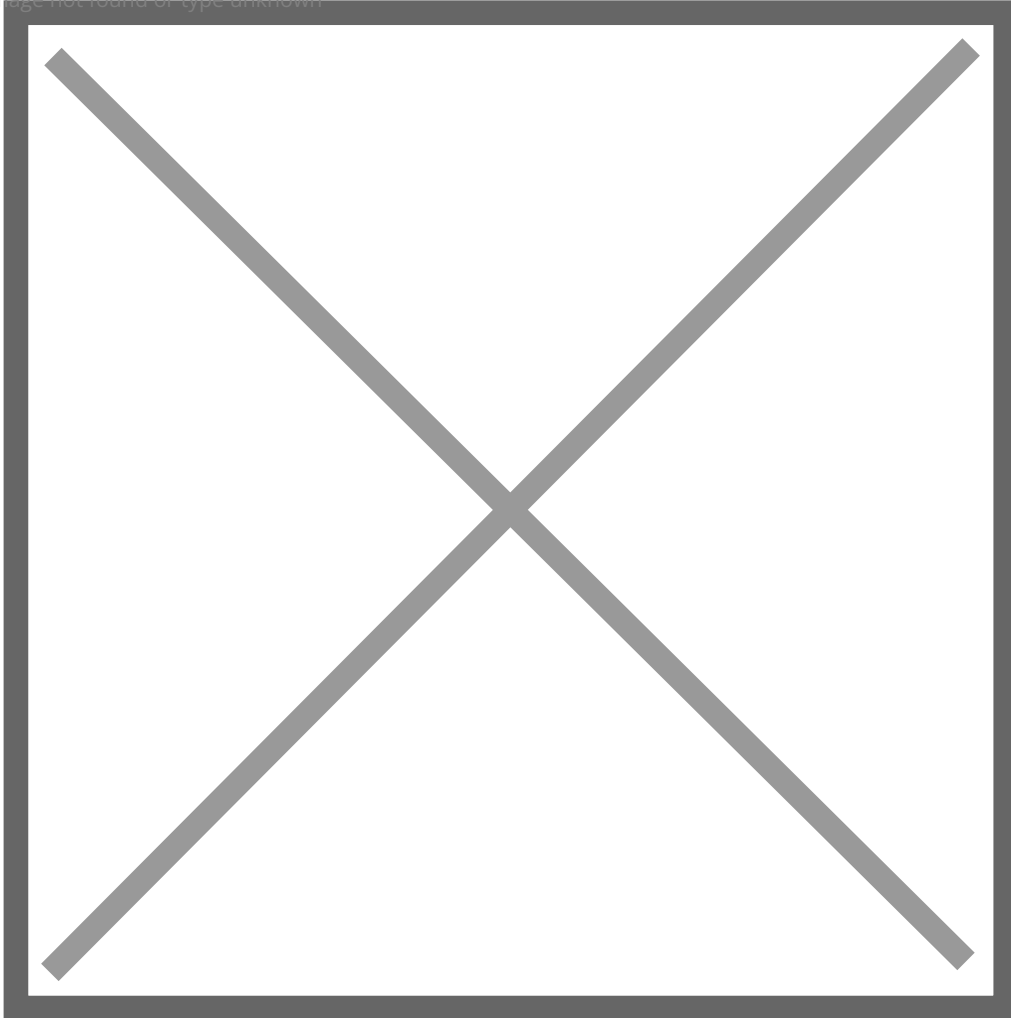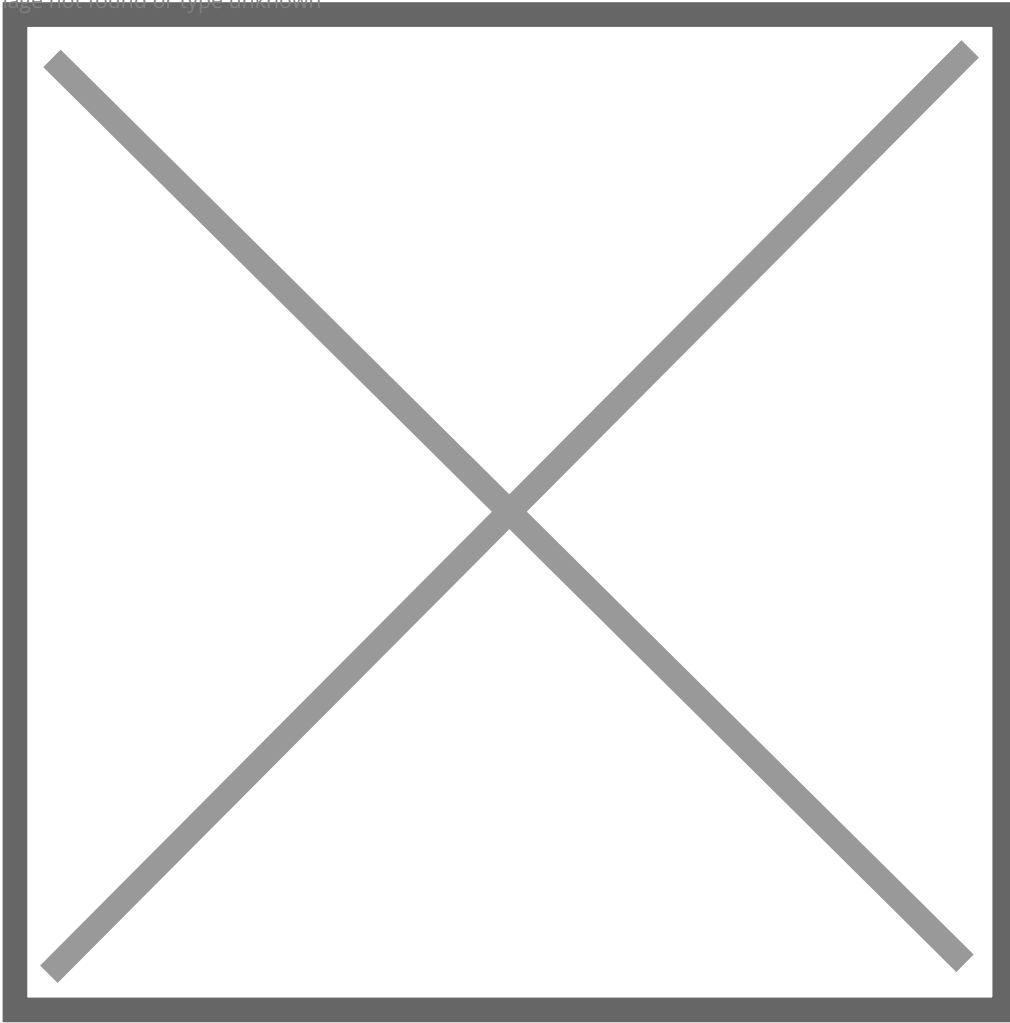
Application

Unit Connected

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Unit Mounted

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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 Ω

Connector
N PLUG

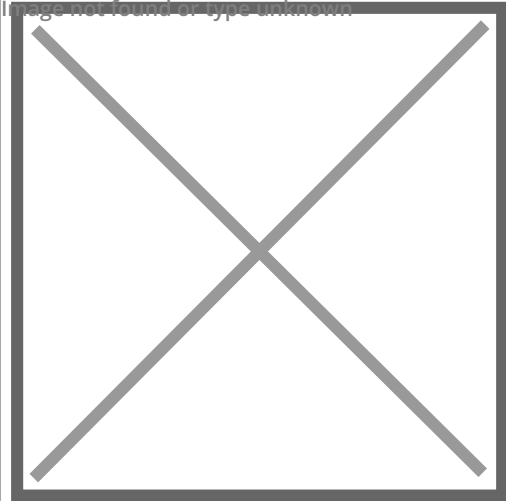## ✚ Primary Node Environmental & Mechanical Characteristics
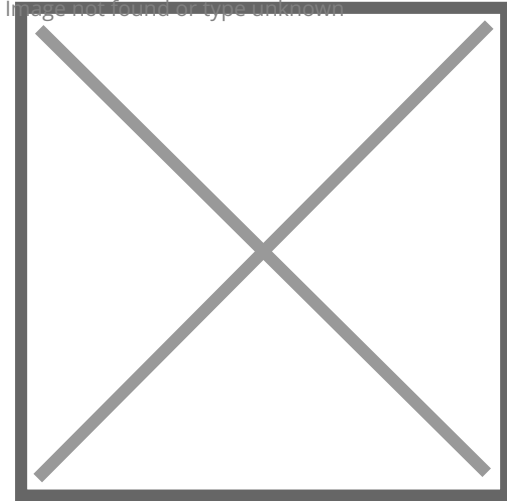
Temperature
-40°C to +85°C

Humidity
90% @ 25°C

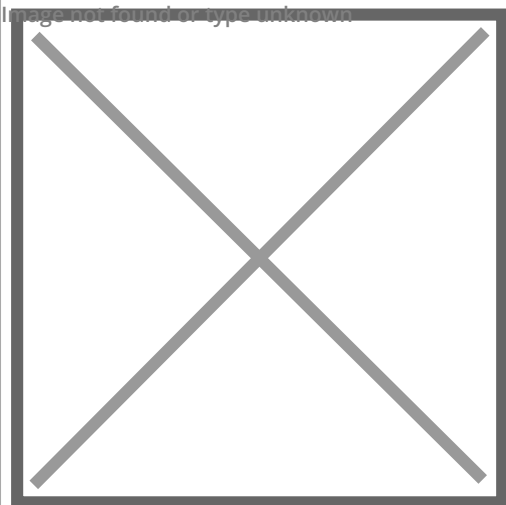## ✚ Primary Node Omni-directional Antenna

✚ Gain - Azimuth & Elevation - Port 1

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✚ Gain - Azimuth & Elevation - Port 2

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✚ Auxiliary Node Panel Antenna

✚ 3D Gain - Port 1

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✚ 3D Gain - Port 2
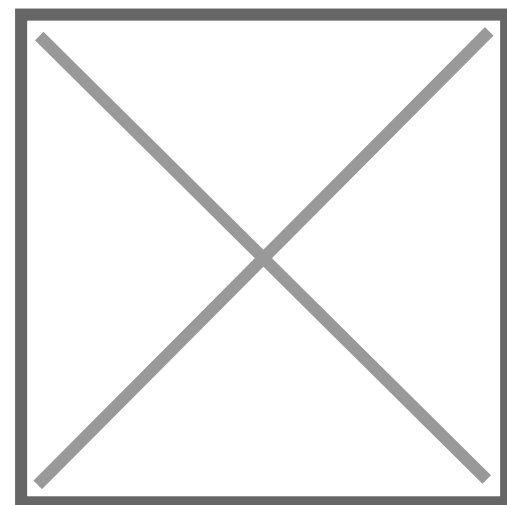
Ordering Info

✛ 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)