

# EasyLink Series

Preconfigured IP67 Wireless Bridge Kit



## Overview

EtherWAN's EasyLink is a pre-configured point to point (PtP) Bridge kit which allows for connecting remote locations wirelessly up to 2 miles away. EasyLink'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 two paired units that connect automatically using a highly secure, unique, 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

### + 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

### + What's Included

- 2 x units preconfigured to connect with optimal performance up to 300Mbps
- Includes all Mounting Hardware
- Includes 2 x power supplies and 2 x PoE injectors

# Specifications

## + Wireless

- Frequency 5 GHz
- Max data rate 300 Mbit/s
- Number of chains: 2
- 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

## + Interface

- Ethernet**
  - 10/100/1000BASE-T Passive PoE
- Wireless**
  - 802.11a/n

### LED Indicators



## + 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**
  - PoE in (Passive PoE)
  - PoE in input Voltage 6-30V
  - Max power consumption 10W

## + Physical

- Casing Material**
  - UV Protected Polystyrene case
- Dimensions**
  - 185 x 185 x 63.5mm (W x D x H)
  - 7.28" x 7.28" x 2.5"
- Weight (shipping)**
  - 5.3lbs (2.4kg)
- Installation Type**
  - Pole/Wall

## + 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
  - \*Power supply rated 5 to 158°F

## + 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>

# Antenna

## + Performance

**VSWR**  
 < 2.0@ 5-5.9GHz

**Dual polarized**  
 Horizontal & Vertical

**High gain**  
 Up to 13dBi

**Front to Back Ratio**  
 >20dB

**Port isolation**  
 >30dB

## + 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.

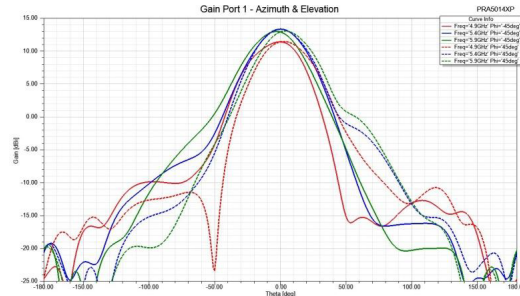
**Impedance**  
 50 Ohm

**RF Interface**  
 2 x SMA Female

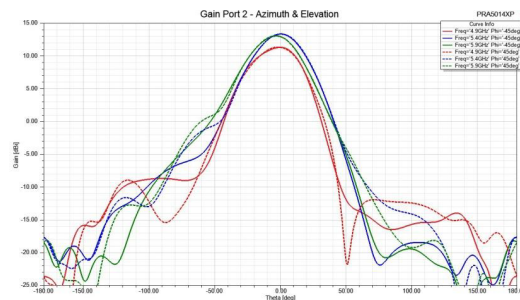
**Front-to-Back Ratio**  
 >20dB

**Port-to-Port Isolation**  
 >30dB

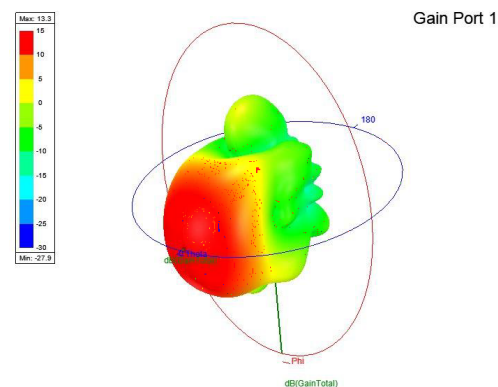
## + Gain - Azimuth & Elevation - Port 1



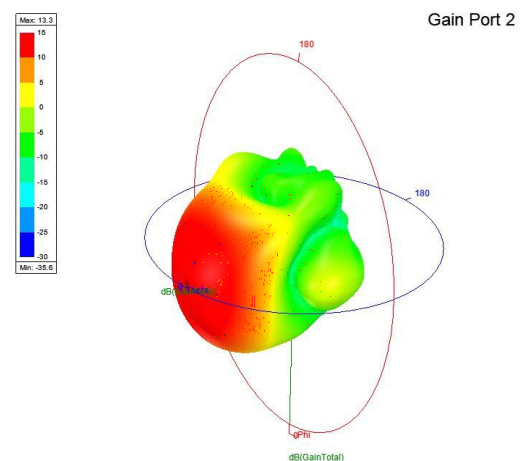
## + Gain - Azimuth & Elevation - Port 2



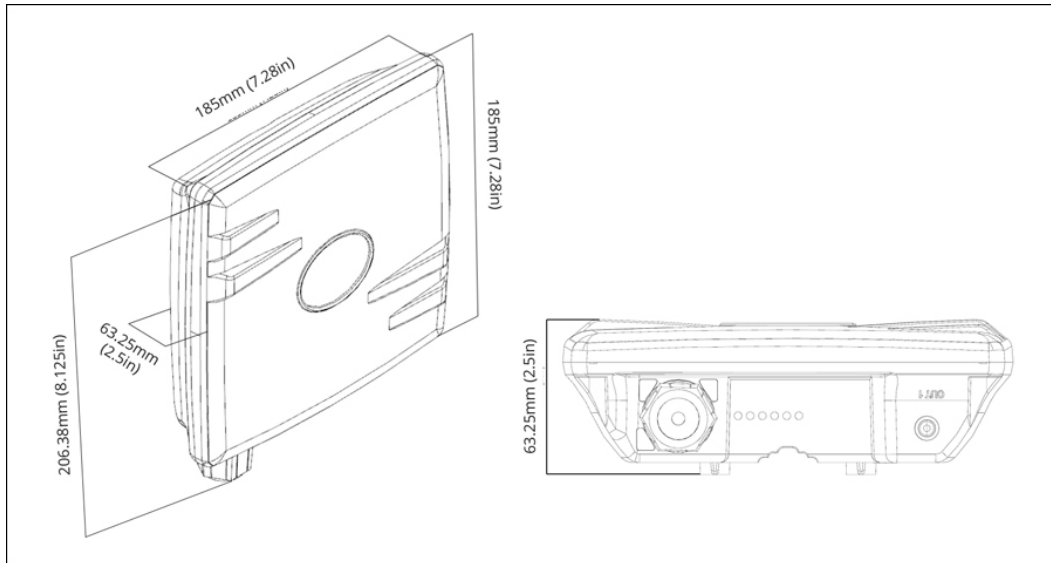
## + 3D Gain - Port 1



## + 3D Gain - Port 2



## Dimensions



## Ordering Info

### + Model

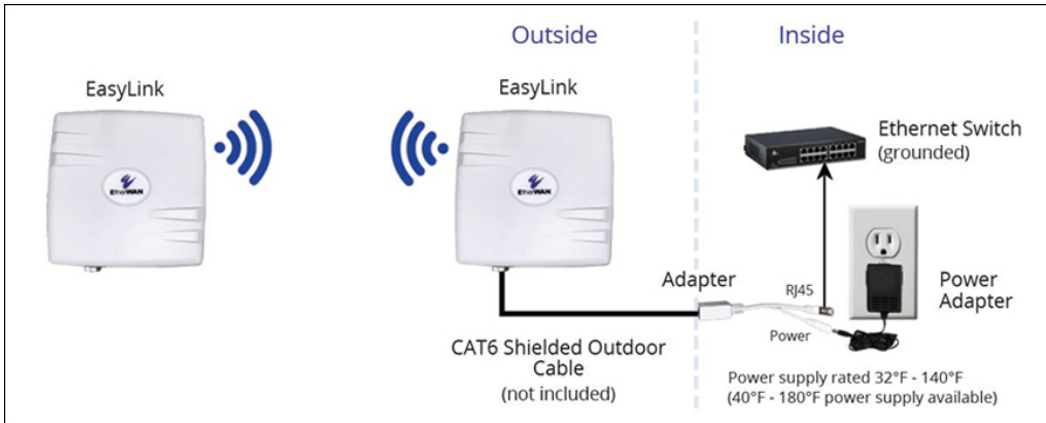
EasyLink-300-US	Wireless Bridge Kit - Two paired Wireless Bridge Units, 2 x 24VDC, 1.5A Power Supplies, 2 x Passive PoE Injectors and 2 x Mounting Kits.
JPole18	18" Wall Mount J-Pole
EasyLink-PSU-INJ	Replacement Power Supply and Gigabit Passive PoE Injector for EasyLink Wireless Bridge Series
Cable 3	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)

### + What's in the Box

2 x Paired Easylink Units, 2 x Wall Power Supplies, 2 x PoE Injectors, 2 x Pole Mounting kit, 2 x Wall Mounting Poles, Quick Install Guide (see picture at top)

# Application

## + Unit Connected



## + Unit Mounted

