EasyLink Series

Preconfigured IP67 Wireless Bridge Kit

EtherWAN

Application

Up to 2 miles
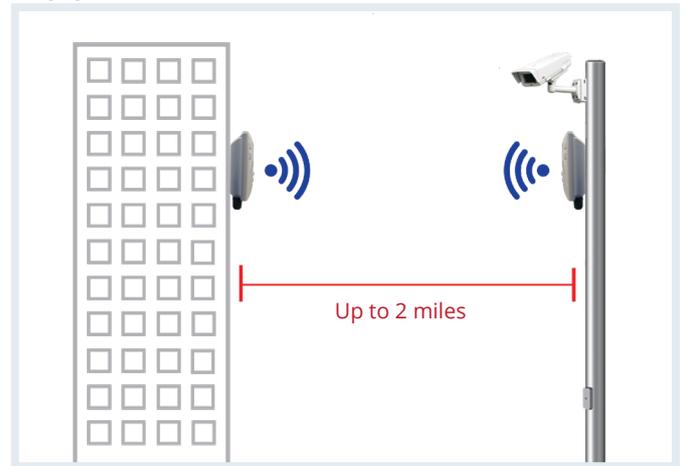
Product Highlights

● 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

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.

Ordering Information

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.
EW-JPole18	18" Wall Mount J-Pole
EasyLink-PSU-INJ	Replacement Power Supply and Gigabit Passive PoE Injector for EasyLink Wireless Bridge Series
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	300' Shielded Twisted Pair CAT 6 Cable with UV Resistant Coating
PWR-H	Hardened Power Supply rated for use in temperatures -40°F to 165°F
PoEPowerEZ	PoE Switch to EasyLink Adapter Hardened -40°F 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)

Hardware Specifications

Wireless	+
Frequency 2.4 GHz	
Max data rate 300 Mbit/s	
Number of chains: 2	
Standards 802.11b/g/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 Spanning Tree Protocol (STP) IEEE 802.1w Rapid Spanning Tree Protocol (RSTP) IEEE 802.1s Multiple Spanning Tree Protocol (MSTP)

| Interface	+
Ethernet	10/100/1000BASE-T Passive PoE
Wireless	802.11b/g/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
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 32°F to 140°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

Dimensions

185mm (7.28in)

185mm (7.28in)

63.25mm (2.5in)

206.38mm (8.125in)

63.25mm (2.5in)

OUT 1

Unit Connected

Outside

Inside

EasyLink

EasyLink

Ethernet Switch (grounded)

Adapter

RJ45

Power Adapter *

Power

CAT6 Shielded Outdoor Cable
(not included)

* Power supply rated 32°F - 140°F
(40°F - 180°F power supply available)
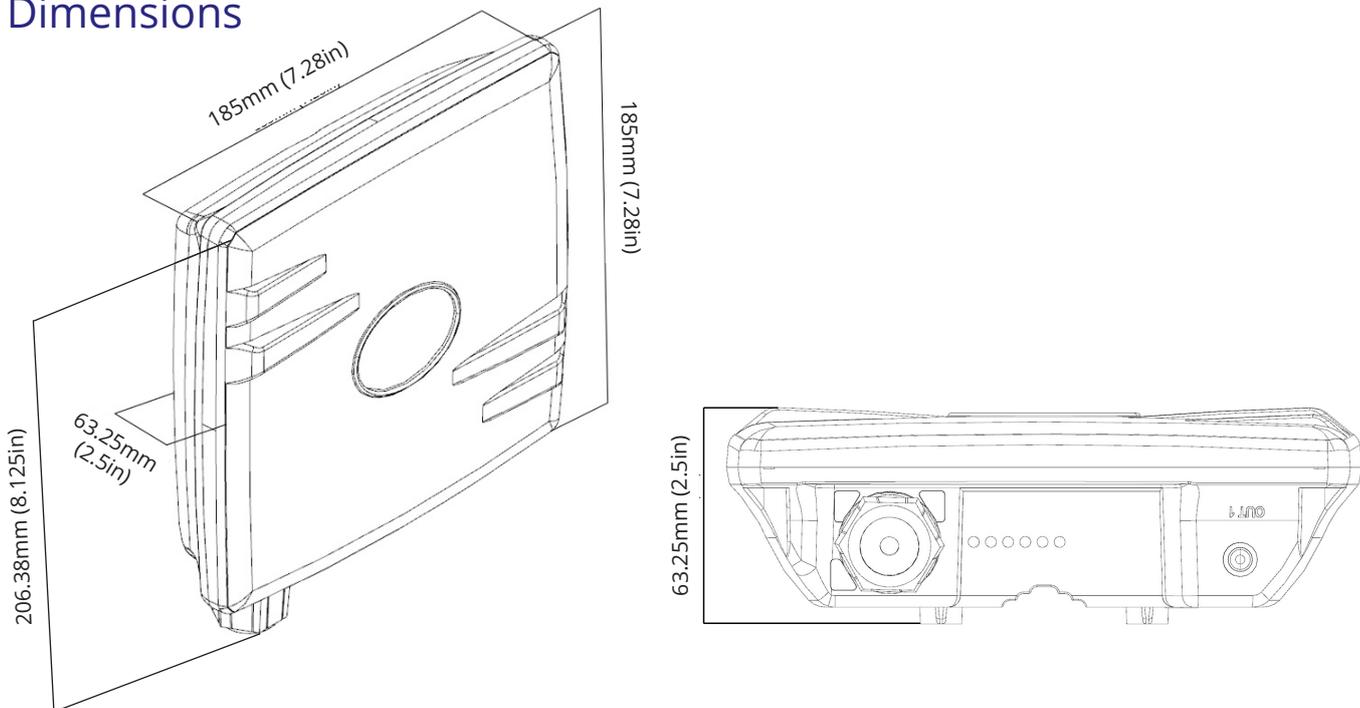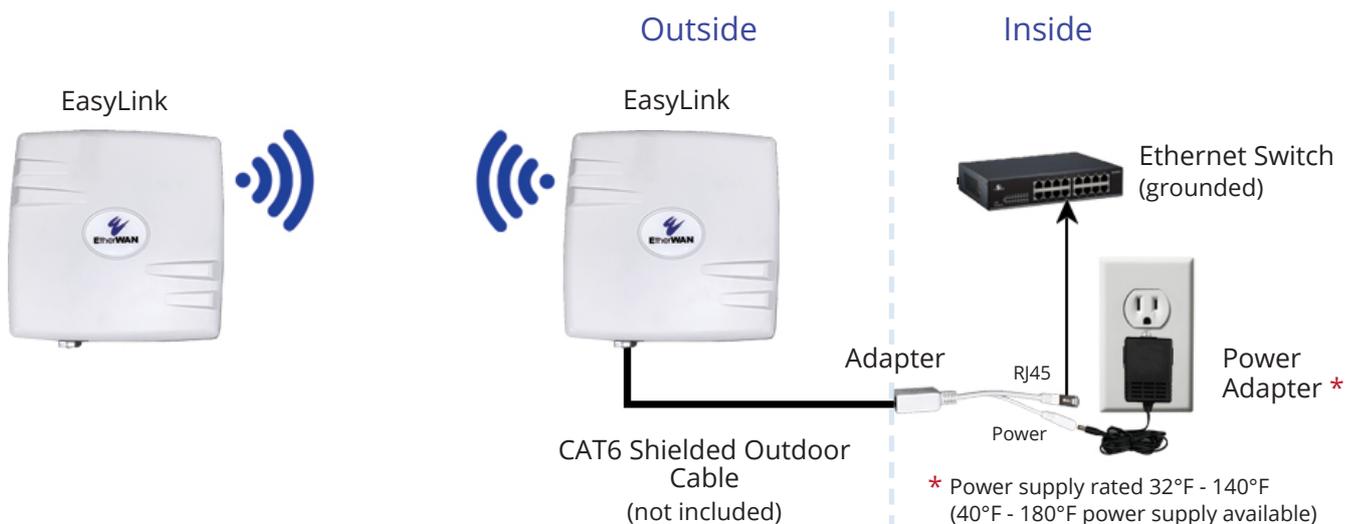
Unit Mounted

Wall Mounted
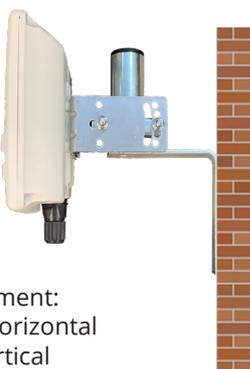
Pole Mounted

Adjustment:
180° Horizontal
30° Vertical

(Wall mount screws and anchors not included)

0.25" - 2.0" OD pole supported

Side View

Back View

Antenna Specifications

| Performance	+
VSWR	< 2.0 @ 2.4 - 2.5 GHz
Dual polarized	Horizontal & Vertical
High gain	Up to 11 dBi
Medium gain, wide-beam radiation pattern	HPBW approx. 35-40 deg and 75-90deg in elevation and azimuth
Front to Back Ratio	> 16dB
Port isolation	> 25dB

| Electrical Specification	+
Frequency Range	2400 - 2500 (S-Band)
Gain	11 dBi typ.
Polarization	Dual linear - V & H
Beamwidth Horizontal	35 - 40 deg @ -3dB
Beamwidth Vertical	75 - 90 deg @ -3dB
VSWR	< 2.0 typ.
Impedance	50 Ohm
RF Interface	2 x SMA Female
Front-to-Back Ratio	>16 dB
Port-to-Port Isolation	>25 dB

Measured VSWR of EasyLink Antenna
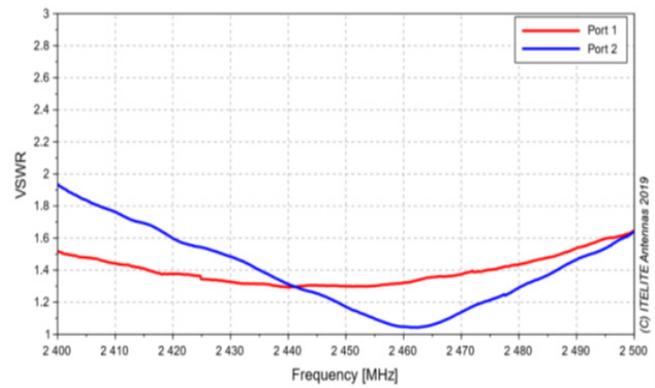
Gain @ 2400-2500 MHz, Vertical
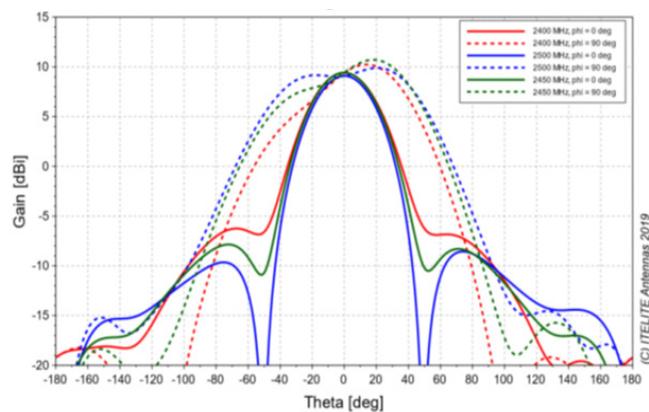
Gain @ 2400-2500 MHz, Horizontal
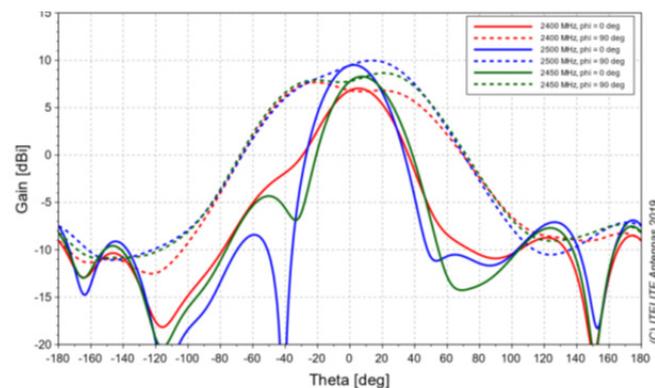
Note:
The EasyLink is a cost-effective Wireless Bridge solution. For successful deployment a couple of factors should be taken into consideration.

1. If one of more ends of the connection do not have access to a temperature controlled area within 350ft. for powering the unit, it is advised to purchase the optional hardened power supply.

2. When mounted outdoors it is required to use UV rated shielded twisted pair CAT 6 cabling. This helps protect against surges due to electrical storms. Be sure the network side of the shielded cable is grounded either through the swtich or recepticle. Optional grounded ethernet switches are available from EtherWAN for purchase.