AltoPlex P621 Bridge Kit

60GHz Outdoor Wireless Multi-Gigabit Network Bridge

The P621 Bridge Kit is a pair of 60GHz radios with integrated 128-element beamforming antennas that provide best-in-class link resiliency and full capacity range in a very compact form factor. It is pre-configured for point-to-point (PtP) connectivity.

P621 radios are carrier-grade, manufactured in the USA and feature IP67 weather-sealing for reliable operation outdoors and in harsh environments.

The P621 Bridge Kit includes everything needed to quickly install a multi-gigabit point-to-point link.



High Capacity

Up to 3.8Gbps aggregate

Low Latency

Sub 1ms latency

Adaptive Beamforming

128-element, phased array, beamforming antenna with 90° azimuth and 40° elevation scanning for maximum link resiliency and ranges up to 1312ft (400m) MCS-9

2.5 Gigabit Ethernet

Built-in 2.5GbE port for maximum throughput

Wi-Fi Management and GPS Location

Connect locally using the Wi-Fi network interface to manage the radio directly. Easily locate the radio using the integrated GPS receiver.

Dense Network Ready

60GHz spectrum with beamforming and TDMA for extremely reliable dense networks

Security

AES 128 encryption with automatic secure key distribution

Carrier-Grade

IP67 rated enclosure and built in USA for reliable, long-term operation in the field

Simple and Rapid Installation

Altowav's antennas auto-align for easy installs, and our Open API and native layer 2 architecture enable easy integration into operators' existing networks



Specifications

SYSTEM

Configuration Point-to-Point 57 - 66GHz **Frequencies**

Channel

Bandwidths 4 non-overlapping

2.16GHz channels

TDMA/TDD

Channel Access

Modulation and 12 levels, adaptive-MCS-0 (BPSK) **Coding Schemes**

to MCS-12 (16QAM)

Antenna Integrated 128-element

> beamforming antenna with wide scanning range: 90° azimuth,

40° elevation

Maximum EIRP 40dBm

Up to 1312ft (400m) MCS-9 Range Capacity Up to 3.8Gbps aggregate

Ethernet

Frame Type Transparent bridging of all

Ethernet types including VLAN

and VLAN stacking

Latency < 1ms

Complete Layer 2 switching, L2 switching

including VLAN support

Security **AES 128**

Wi-Fi Management

2.4GHz IEEE 802.11b/g/n wireless Interface

management interface (not a data

access point)

Integrated GPS receiver to locate Location

individual radios

CONNECTIVITY

1 x 2.5GbE RJ45 **Ethernet**

Voltage 56VDC **PoE Input** 802.3at

Power

15W maximum Consumption

Included PoE Injectors Indoor 802.3at (30W) 5GbE PoE

injector with 2.6ft (0.8m)

US power cord

MANAGEMENT

Web GUI, CLI, REST API and Management

AltoCommand (optional)

MECHANICAL

Dimensions

 $(H \times W \times D)$ 5.9" x 3.8" x 1.4" (150 x 95 x 35mm)

Weight 14oz (400g)

Operating

Temperature -40° to $+131^{\circ}$ F (-40° to $+55^{\circ}$ C)

-22°F (-30°C) cold start

Die-cast powder-coated aluminum Casing

chassis with PC-ABS radome

Ingress Protection IP67 FCC. IC Regulatory

IEC EN 61000-4-2 **ESD EMC** IEC EN 61000-4-3

Integrated wall and pole mount Mounting

> supporting .5" band clamps. Additional mounting accessories supporting elevation adjustment

are available.

INCLUDED ACCESSORIES (2 ea.)

AX-P-IN-AT-5G-US Indoor 802.3at (30W) 5GbE PoE

injector with 0.8m US power cord

ACCESSORIES

Wall standoff bracket that **AX-AW3-MT-WALL**

enables azimuth adjustment

AX-AW3-EXT-MOUNT Extended range pole mounting kit

for AltoPlex radios, enabling up to +60/-45° elevation adjustment

Outdoor 4 port PoE 2.5GbE switch AX-PSW-OD-4AT-4C25

AX-PSW-OD-MOUNT

Pole mount bracket for Outdoor

PoE switch

