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

ConfigurationPoint-to-PointFrequencies57 - 66GHz

Channel

Bandwidths 4 non-overlapping

2.16GHz channels

Channel Access

Modulation and

Coding Schemes 12 levels, adaptive—MCS-0 (BPSK)

TDMA/TDD

to MCS-12 (16QAM)

Antenna Integrated 128-element

beamforming antenna with wide scanning range: 90° azimuth,

40° elevation

Maximum EIRP 40dBm

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

Ethernet

Frame Type Transparent bridging of all

Ethernet types including VLAN

and VLAN stacking

Latency < 1ms

L2 switching Complete Layer 2 switching,

including VLAN support

Security AES 128

Wi-Fi Management

Interface 2.4GHz IEEE 802.11b/g/n wireless

management interface (not a data

access point)

Location Integrated GPS receiver to locate

individual radios

CONNECTIVITY

Ethernet 1 x 2.5GbE RJ45

Voltage 56VDC **PoE Input** 802.3at

Power

Consumption 15W maximum

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

injector with 2.6ft (0.8m)

US power cord

MANAGEMENT

Management Web GUI, CLI, REST API and

AltoCommand (optional)

MECHANICAL

Dimensions

(**H x W x D**) 5.9" x 3.8" x 1.4" (150 x 95 x 35mm)

Weight 14oz (400g)

Operating

Temperature -22° to $+131^{\circ}$ F (-30° to $+55^{\circ}$ C)

Casing Die-cast powder-coated aluminum

chassis with PC-ABS radome

Ingress Protection IP67

Regulatory FCC, IC

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

Mounting Integrated wall and pole mount

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

AX-AW3-MT-WALL Wall standoff bracket that

enables azimuth adjustment

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

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

AX-PSW-OD-4AT-4C25

Outdoor 4 port PoE 2.5GbE switch

AX-PSW-OD-MOUNT Pole mount bracket for Outdoor

PoE switch

