AltoPlex D621

60GHz Outdoor Wireless Network Distribution Unit

The D621 is a 60GHz radio with integrated 128-element beamforming antenna that provides best-in-class link resiliency and full capacity range in a very compact form factor. It supports PtMP and can be configured as either a distribution or client unit for maximum flexibility.

The D621 is carrier-grade, manufactured in the USA and features IP67 weather-sealing for reliable operation outdoors and in harsh environments.



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 and

> Point-to-Multipoint Distribution or Client

57 - 66GHz

Frequencies 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

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

Ethernet

Transparent bridging of all Frame Type Ethernet types including VLAN

and VLAN stacking

Latency < 1ms

L2 switching Complete Layer 2 switching,

including VLAN support

AES 128 Security

PtMP

Remote Support Up to 15 client units +1 distribution

node connection

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 5GbF RJ45

Voltage 56VDC 802.3at PoE Input

Power

Consumption 15W maximum

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

-22° to +131°F (-30° to +55°C) **Temperature**

Die-cast powder-coated aluminum Casing

chassis with PC-ABS radome

IP67 Ingress Protection

Regulatory FCC, IC

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

Integrated wall and pole mount Mounting

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

are available.

MODEL NUMBER

AW3-D621-C-W D621 60GHz Network Distribution/

High-Capacity Client Radio

CLIENT MODEL NUMBERS

AW3-C420-C-PW C420 60GHz Extended Range

Client Radio

AW3-C410-C-PW C410 60GHz Standard Range

Client Radio

ACCESSORIES

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

injector with 0.8m US power cord

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

