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

Altoway'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

Frequencies 57 - 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

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 2.5GbE RJ45

Voltage 56VDC **PoE Input** 802.3at

Power

Consumption 15W maximum

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

RegulatoryFCC, ISED, CEESDIEC EN 61000-4-2EMCIEC EN 61000-4-3

Radio ETSI EN 303722-V1.2.1,

EN 300328-V2.2.2, EN 303413-V1.2.1

Mounting Integrated wall and pole mount

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-D423-C-W D423 3-Port 60GHz Network

Distribution/Client Radio

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

