AltoPlex C420

60GHz Outdoor Wireless Extended Range Client Unit

The C420 is a 60GHz radio with integrated 128-element beamforming antenna that enables the quick and easy installation of reliable, gigabit connections, all in a cost-effective and compact form factor.

The C420 is carrier-grade, manufactured in the USA and features IP67 weather-sealing for reliable operation outdoors and in harsh environments. It is ideally suited as a client for enterprise and residential gigabit access applications.



High Capacity

Up to 2Gbps 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

Gigabit Ethernet

Built-in gigabit RJ45 port

GPS Location

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. 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 Client

Frequencies 57 - 66GHz

Channel

Bandwidths 4 non-overlapping

2.16GHz channels

Channel Access TDMA/TDD

Modulation and

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

to MCS-12 (16QAM)

Antenna Integrated 128-element

beamforming antenna with wide scanning range: 90° azimuth,

40° elevation

Maximum EIRP 40dBm

Range Up to 400m (MCS9)

Capacity Up to 2Gbps 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

Location Integrated GPS receiver to identify

and locate individual radios

CONNECTIVITY

Ethernet 1 x 1GbE RJ45

Voltage 56VDC **PoE Input** 802.3af

Power

Consumption 11W maximum

Included PoE Injector Indoor 802.3af (15W) 1GbE 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

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

Radio ETSI EN 303 722-V1.2.1,

EN 300 328-V2.2.2, EN 303 413-V1.2.1

Mounting Integrated wall and pole mount

supporting .5" band clamps.

Additional mounting accessories supporting elevation adjustment

are available.

MODEL NUMBER

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

Client Radio

INCLUDED ACCESSORIES

AX-P-IN-AF-1G-US Indoor 802.3af (15W) 1GbE PoE

injector with 0.8m US power cord

DISTRIBUTION NODE/CLIENT MODEL NUMBERS

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

High-Capacity Client Radio

AW3-D423-C-W D423 3-Port 60GHz Network

Distribution/Client Radio

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

