

D621

60GHz Outdoor Wireless Network Distribution Unit

The D621 is a 60 GHz 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 1.9Gbps symmetrical

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 300m (MCS9)

2.5 Gigabit Ethernet

Built-in 2.5 GbE port for maximum throughput

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
Frequencies	57 - 66 GHz
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 Output Power to Antenna	20dBm
Range	Up to 300m (MCS9)
Capacity	Up to 1.9 Gbps symmetrical
Ethernet Frame Type	Transparent bridging of all Ethernet types including VLAN and VLAN stacking
Latency	< 1 ms
L2 switching	Complete Layer 2 switching, including VLAN support
Security	AES 128
PtMP Remote Support	Up to 15 client units +1 distribution node connection

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	-30° to +55°C
Ingress Protection	IP67
Regulatory	FCC, IC
ESD	IEC EN 61000-4-2
EMC	IEC EN 61000-4-3

CONNECTIVITY

Ethernet	1 x 2.5GbE RJ45
Voltage	56VDC
PoE Input	802.3at
Power Consumption	13W maximum

MANAGEMENT

Management	Web GUI, CLI, REST API and Altowav Edge Controller (optional)
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