K60

60GHz Outdoor Wireless Network Radio Unit

The K60 is a 60GHz radio with integrated 128-element beamforming antenna that provides best-in-class link resiliency and full capacity range. It supports Point-to-Multi-Point (PtMP) and can be configured as either hub or remote for maximum flexibility.

The K60 is carrier-grade, manufactured in the USA and features IP67 weather-sealing for reliable operation outdoors and in harsh environments. It is ideal for both distribution and client applications where its second port can connect and power a collocated device.



High Capacity
Up to 1Gbps symmetrical

Low Latency
Sub 1ms latency

Dynamic Resource Allocation
Network capacity is automatically adjusted based on per endpoint downlink and uplink utilization

Adaptive Beamforming
128 element, phased array, beamforming antenna with 90° horizontal and 40° vertical scanning
for maximum link resiliency and ranges up to 400m at full capacity

Gigabit Ethernet
Built-in gigabit Ethernet with PoE output for connecting a camera, Wi-Fi AP, or collocated Altowav radio unit

Dense Network Ready
60GHz spectrum with beamforming and interference cancellation allows for extremely dense networks

Security
AES 128 encryption with automatic secure key distribution

Carrier-Grade
IP67 rated enclosure (requires Harting connectors) 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

7801 E Bush Lake Rd, Suite 300 Minneapolis, MN 55439 • (952) 657-5628 • ALTOWAV.COM

Specifications

SYSTEM

Configuration	Point to Point and Point to Multipoint
Frequency and Duplexing	57.24 - 63.72GHz TDD
Channel Bandwidths	3 non-overlapping 2.16GHz channels
Modulation	8 levels of adaptive modulation and coding schemes
Antenna	Integrated beamforming antenna with wide scanning range: Horizontal: 90° Vertical: 40°
Maximum Output Power to Antenna	20dBm
Full Capacity Range	400m
Capacity	Up to 1Gbps symmetrical
Ethernet Frame Type	Transparent bridging of all Ethernet types including VLAN and VLAN stacking
Latency	250µs average TDD
L2 Switching	Complete Layer 2 switching, including VLAN support
Security	AES 128
PtMP Remote Support	Up to 8 remote stations

MECHANICAL

Dimensions (H x W x D)	6.2" x 3.9" x 1.9" (157 x 99 x 48mm)
Weight	14oz (400g)
Operating Temperature	-30° to +55°C
Ingress Protection	IP67 (requires Harting connector)
Regulatory	FCC, IC
ESD	IEC EN 61000-4-2
EMC	IEC EN 61000-4-3

CONNECTIVITY

Ethernet	2 x 1000BASE-T HARTING PushPull V4 RJ45
Voltage	56VDC (802.3at, or 802.3bt PoE input)
PoE Output	Up to 802.3at
Power Consumption	8W maximum (not including PoE output)

MANAGEMENT

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

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