

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 1.8Gbps aggregate

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 1312ft (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

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 EIRP	40dBm
Full Capacity Range	Up to 1312ft (400m) MCS-8
Capacity	Up to 1.8Gbps 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 8 remote stations

CONNECTIVITY

Ethernet	2 x 1000BASE-T HARTING PushPull V4 RJ45
Voltage	56VDC (802.3at, or 802.3bt PoE input)
PoE Input	Active, 802.3af/at/bt
PoE Output	Active, 802.3af/at up to 30W
Power Consumption	8W maximum (not including PoE output)

MANAGEMENT

Management	Web GUI, CLI, REST API and AltoCommand (optional)
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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	-40° to +131°F (-40° to +55°C) -22°F (-30°C) cold start
Casing	Die-cast anodized aluminum chassis with PC-ABS radome
Ingress Protection	IP67 (requires HARTING connector)
Regulatory	FCC, IC
ESD	IEC EN 61000-4-2
EMC	IEC EN 61000-4-3

MODEL NUMBER

AW2-K60-2C-MG	K60 60GHz radio
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INCLUDED ACCESSORIES

AX-K60-M	Pole/wall mount bracket for K60
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ACCESSORIES

AX-AW3-MT-WALL	Wall standoff bracket that enables azimuth adjustment
AX-P-IN-BT-1G-US	Indoor 802.3bt (60W) 1GbE PoE injector with 0.8m US power cord
AX-PSW-OD-3AT-4C1	Outdoor 3 port PoE + 1 data uplink 1GbE switch
AX-PSW-OD-4AT-4C25	Outdoor 4 port PoE 2.5GbE switch
AX-PSW-OD-MOUNT	Pole mount bracket for Outdoor PoE switch
Cabling	Altowav carries a full line of HARTING PushPull V4 premade cables at various lengths and connector combinations