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



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 -40° 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)

