

K60 Bridge Kit

60GHz Outdoor Wireless Network Bridge

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-multipoint (PtMP) and can be configured as either hub or remote for maximum flexibility.

The K60 is carrier-grade, manufactured in the USA, features IP67 weather-sealing for reliable operation in harsh environments, and its second port can be used to connect and power a collocated device.

The K60 Gigabit Bridge Kit includes everything needed to quickly install a gigabit point-to-point link.



Complete Solution

Cables, PoE Injectors, and Pole Mounts Included

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 1312ft (400m) at full capacity

Gigabit Ethernet

Built-in gigabit Ethernet with PoE output for connecting a camera, Wi-Fi Access Point, 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

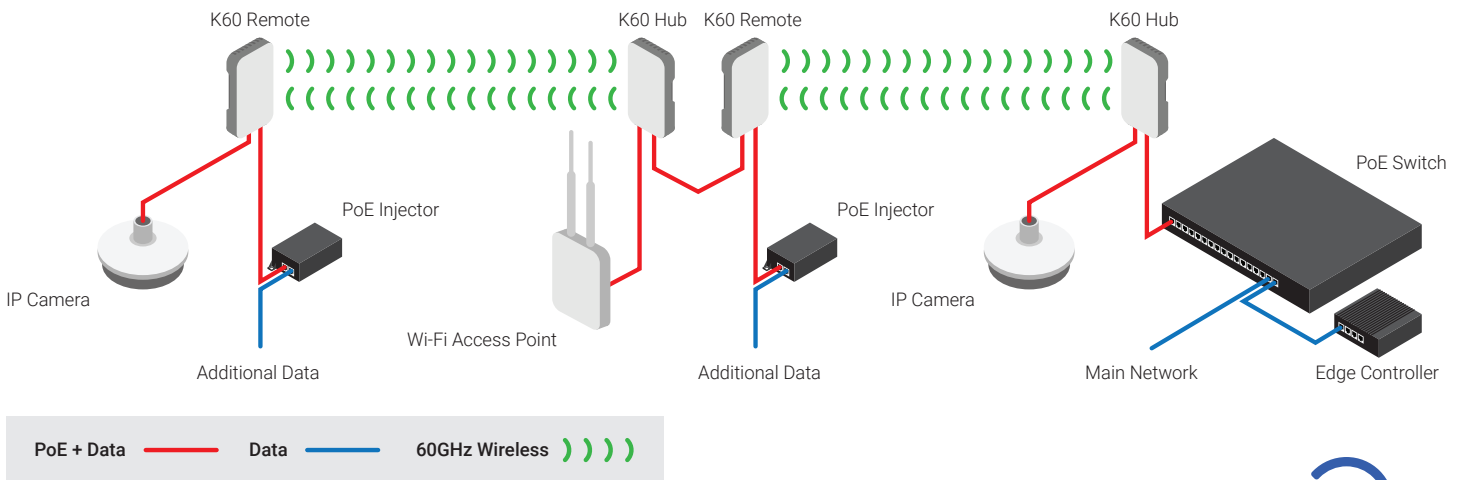
SYSTEM

| | |
|--|---|
| 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 | Up to 1312ft (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 |

MANAGEMENT

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

NETWORK DIAGRAM



MECHANICAL

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|-------------------------------|---|
| 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 |
| Ingress Protection | IP67 (requires Harting connector) |
| Regulatory | FCC, IC |
| ESD | IEC EN 61000-4-2 |
| EMC | IEC EN 61000-4-3 |

CONNECTIVITY

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|--------------------------|--|
| 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) |

INCLUDED ACCESSORIES

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|---------------------|--|
| Mounting | 2 x Pole Mounts |
| Cabling | 2 x 3.3ft (1m) HARTING PushPull V4 RJ45 to RJ45 outdoor cables |
| PoE Injector | 2 x 60W Active PoE Injectors |