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

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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

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

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

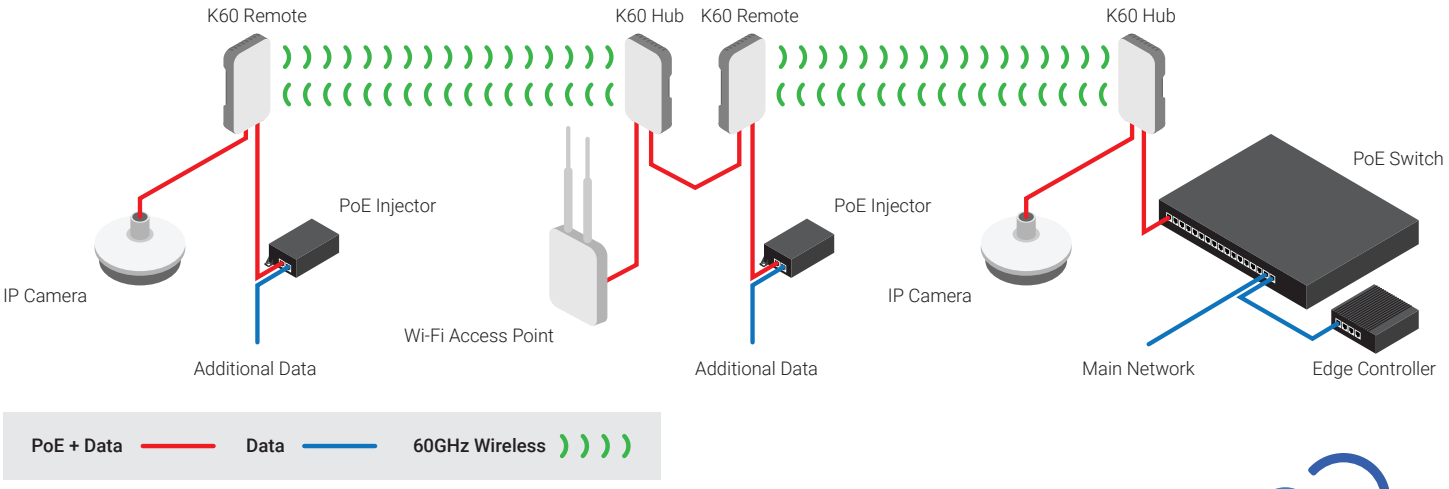
CONNECTIVITY

Ethernet	2 x 1000BASE-T HARTING PushPull V4 RJ45
Voltage	56VDC (802.3at, or 802.3bt PoE input)
PoE 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

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

NETWORK DIAGRAM



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