

Kwikbit™ K60 60 GHz Outdoor Unit

The K60 is a wireless, point-to-multipoint hub or remote device that operates on license-free 60GHz spectrum and is designed to operate reliably outdoors and in harsh environments.

Driven by Kwikbit's Edge & Cloud platform, the K60 enables the easy and quick deployment of outdoor, multi-gigabit distribution and access networks. Applications include gigabit access, Wi-Fi and 4G small cell backhaul, video surveillance, gigabit connectivity and smart city networks.

High Capacity

Up to 1.8 Gbps "goodput" capacity per channel

Low Latency

Sub 1 ms 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-degree horizontal and 40-degree 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 Kwikbit unit



Dense Network Ready

60 GHz 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 and built in USA for reliable, long-term operation in in the field

Simple and Rapid Installation

Kwikbit Edge/Cloud tools enable non-technical physical install and zero-touch commissioning for rapid, low-cost network expansions

K60 Specifications

System

Configuration	Point to Point and Point to Multipoint
Frequency and Duplexing	57.24 - 63.72 GHz 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°
Typical Range	400 meters
Capacity	Up to 1.8Gbps aggregate "goodput" per channel
Ethernet frame type	Transparent bridging of all Ethernet types including VLAN and VLAN stacking
Latency	250 μ s average TDD
L2 switching	Complete Layer 2 switching, including VLAN support
Security	AES 128
PtMP remote support	Up to 8 remote stations

Physical

Dimensions (H x W x D)	157 x 99 x 48 mm 6.2 x 3.9 x 1.9 inches
Weight	14 ounces / 400 grams
Operating temperature	-30 to +55°C
Ingress Protection	IP67
FCC	47 CFR Part 15.255
ESD	IEC EN 61000-4-2
EMC	IEC EN 61000-4-3

Connectivity

Ethernet	2 x 1000BASE-T RJ45
Power Input	802.3at, 802.3at+, or 802.3bt PoE
PoE Output	Up to 802.3at

Management

Provisioning	Zero-touch deployment and commissioning with Kwikbit Edge Controller
Management	Web GUI, CLI, REST API and Edge Controller (optional)