

## **Kwikbit™ K60** **60 GHz Outdoor Unit**

The Kwikbit K60 is a 60 GHz radio with integrated 128-element beamforming antenna that provides best-in-class link resiliency and full capacity range. It supports 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 1.8 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 405m 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 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°
Full Capacity Range	405 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 $\mu$ 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
Regulatory	FCC, IC
ESD	IEC EN 61000-4-2
EMC	IEC EN 61000-4-3

### Connectivity

Ethernet	2 x 1000BASE-T RJ45
Power Input	802.3af, 802.3at, 802.3at+, or 802.3bt PoE
PoE Output	Up to 802.3at
Power Consumption	8 watts maximum (not including PoE output)

### Management

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