

Kwikbit™ K60x 60 GHz Outdoor Unit

The Kwikbit K60x 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.

The K60x is carrier-grade, manufactured in the USA and features IP67 weather-sealing for reliable operation outdoors and in harsh environments. With its 2.5 GbE ports and enhanced packet processing, it is ideally suited for multi-gigabit backhaul, enterprise and MDU access, Wi-Fi and small cell backhaul, video analytics, and other demanding outdoor applications.

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

2.5 GbE and PoE Output

Dual 2.5GBASE-T Ethernet ports for relay connections and traffic beyond 1Gbps



Enhanced Packet Processing

Packet acceleration that can handle 2.4 million 64 byte packets per second

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

K60x 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, phased array beamforming antenna with 128 antenna elements and a 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 μ s average TDD
L2 switching	Complete Layer 2 switching
Security	AES 128
PtMP remote support	Up to 8 remote stations

Physical

Dimensions (H x W x D)	200 x 99 x 70 mm 7.9 x 3.9 x 2.8 inches
Weight	35 ounces / 992 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 2.5GBASE-T RJ45 1 x 1000BASE-T RJ45
Power Input	802.3at, 802.3at+, or 802.3bt PoE
PoE Output	Up to 802.3at
Power Consumption	20 watts maximum (not including PoE output)

Management

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