

Kwikbit™ K60c 60 GHz Client Unit

The Kwikbit K60c is a 60GHz radio with integrated 64-element beamforming antenna that provides 1.8 Gbps goodput at ranges up to 285 meters. It supports PtMP and can be configured as either hub or remote for maximum flexibility.

The K60c is carrier-grade, manufactured in the USA and features IP65 weather-sealing for reliable outdoor operation. With its extremely compact size and low-cost, it is ideally suited as a client for enterprise and residential gigabit access 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

64 element, phased array, beamforming antenna with 90-degree horizontal and 40-degree vertical scanning for maximum link resiliency and ranges up to 285m at full capacity

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

IP65 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 64 antenna elements and a wide scanning range: Horizontal: 90° Vertical: 40°
Full Capacity Range	225-285* meters <i>(longer range when connecting to 128-element Kwikbit unit)</i>
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)	185 x 80 x 30 mm 7.3 x 3.2 x 1.2 inches
Weight	9 ounces / 255 grams
Operating temperature	-30 to +55°C
Ingress Protection	IP65
Regulatory	FCC, IC
ESD	IEC EN 61000-4-2
EMC	IEC EN 61000-4-3

Connectivity

Ethernet	1 x 1000BASE-T RJ45
Power Input	802.3af PoE
Power Consumption	6 watts maximum

Management

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