

## **Kwikbit™ K60i 60 GHz Indoor Distribution Unit**

The K60i is a wireless, point-to-multipoint backhaul device that operates on license-free 60GHz spectrum.

Driven by Kwikbit's Edge device, the K60i enables the quick and easy indoor deployment of multi-gigabit distribution networks. Applications include Wi-Fi and 4G/5G small cell backhaul, Industrial IoT, private networks, and video surveillance.



### **High Capacity**

Up to 1.8 Gbps capacity

### **Dynamic Resource Allocation**

Network capacity is automatically adjusted based on per endpoint downlink and uplink utilization

### **Adaptive Beamforming**

Advanced beamforming solution allows for a simple installation and automatic optimization of every link

### **Bench-Free Setup**

Non technical install with local or remote commissioning via Kwikbit Edge or Cloud

### **GigE PoE+ Ethernet Switch**

Reduces need for additional switches and midspan PoE injectors

### **Low Latency**

Sub 1 ms latency

### **Dense Network Ready**

Interference cancellation and 60 GHz oxygen absorption characteristics enable extremely dense deployments. Does not introduce interference to existing 2.4 GHz and 5 GHz Wi-Fi networks

### **Security**

AES 128 encryption with automatic secure key distribution

### **Simple Install and Management**

Edge Controller and Cloud-based tools enable rapid deployment, simple commissioning, and remote management

## K60i 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 level of adaptive modulation and coding schemes                                            |
| Antenna                 | Integrated beamforming antenna with wide scanning range:<br>Horizontal: 90°<br>Vertical: 40° |
| Typical Range           | 150 meters                                                                                   |
| Capacity                | Up to 1.8Gbps/sec aggregate 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) | 107 x 107 x 50 mm<br>4.3 x 4.3 x 2 inches |
| Weight                 | 13.7 ounces / 388 grams                   |
| Operating temperature  | 0 to +45°C                                |
| Humidity               | non condensing                            |
| ESD                    | IEC EN 61000-4-2                          |
| EMC                    | IEC EN 61000-4-3                          |

### Connectivity

|             |                                            |
|-------------|--------------------------------------------|
| Ethernet    | 3 x GigE RJ-45                             |
| Power Input | 12-48 VDC                                  |
| PoE Output  | 1 x 802.3at (30 W)<br>1 x 802.3af (15.4 W) |

### Management

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