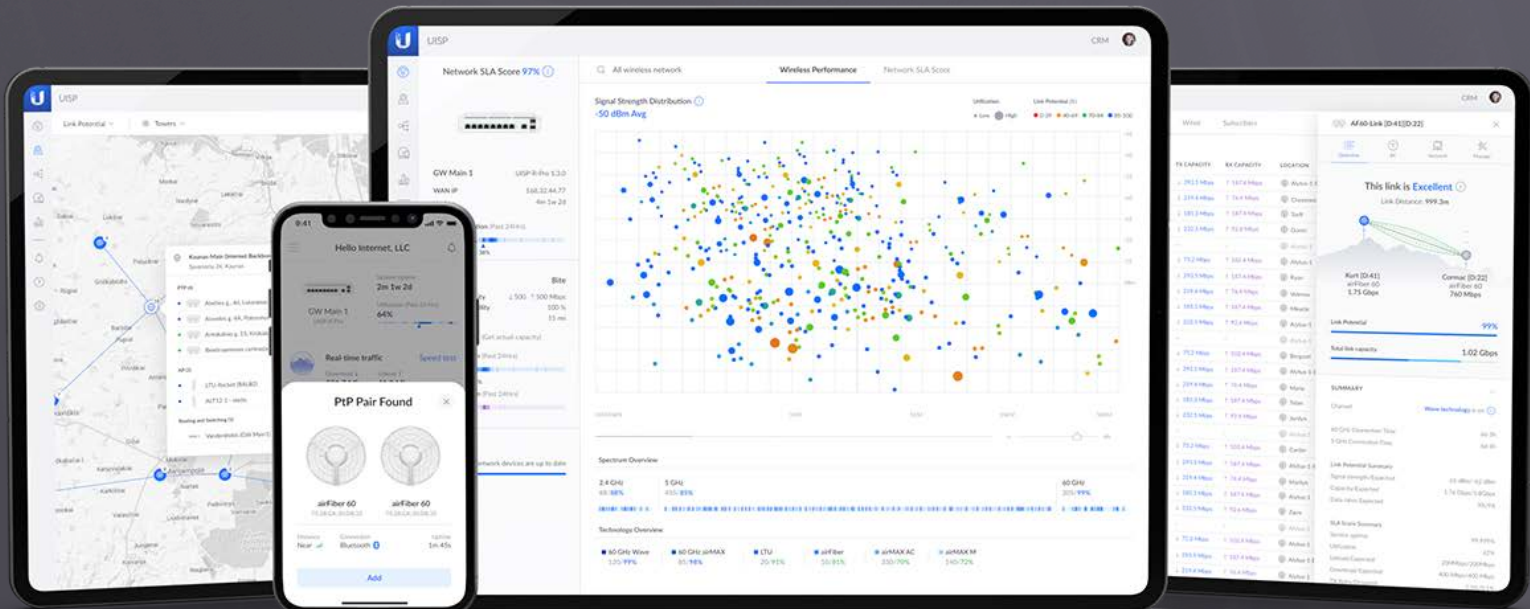


# UFiber WiFi6

Datasheet  
UF-WiFi6



# UFiber WiFi6 GPON CPE

High-performance WiFi 6 GPON CPE.

The UFiber WiFi6 GPON CPE (UF WiFi6) is a point-to-multipoint WiFi 6 device that creates high-speed GPON connections capable of reaching a 2.4 Gbps downstream rate and 1.2 Gbps upstream rate. The UF WiFi6 has (4) GbE RJ45 LAN ports and (1) GPON WAN port to connect a local fiber line. It also excels at establishing reliably strong, long-distance fiber links up to 20 kilometers, allowing you to extend your service range and build your customer base.



## Mechanical

|                    |                                                |
|--------------------|------------------------------------------------|
| Dimensions         | 140.8 x 141.5 x 31.65 mm (5.54 x 5.57 x 1.25") |
| Weight             | 415 g (0.99 lb)                                |
| Enclosure material | UV-stabilized polycarbonate                    |

## Hardware

|                                   |                                                                                                      |          |
|-----------------------------------|------------------------------------------------------------------------------------------------------|----------|
| Processor                         | Dual-core MIPS 1004 Kc at 900 MHz                                                                    |          |
| Memory                            | 256 MB RAM                                                                                           |          |
| Total non-blocking line rate      | 2.488 Gbps downstream<br>1.244 Gbps upstream                                                         |          |
| Networking interfaces             | (1) SC/APC, ITU-G.984 GPON WAN port<br>(4) GbE RJ45 LAN ports<br><br>WiFi 802.11ax 5/2.4GHz channels |          |
| PoE interface                     | (1) PoE in, 24V passive PoE                                                                          |          |
| Management interface              | Ethernet in-band<br>PON                                                                              |          |
| Button                            | Factory-reset                                                                                        |          |
| Max. power consumption            | 11W                                                                                                  |          |
| Power method                      | USB-C 5VDC, 3A<br>24V passive PoE, 0.5A                                                              |          |
| Power supply                      | 5VDC, 3A power adapter, 1.5 m cord (included)<br>Passive PoE 2-pair (4, 5+; 7, 8-)                   |          |
| Supported voltage range           | 10-30VDC passive PoE<br>5VDC adapter                                                                 |          |
| Normal TX range of optical module | 0.5 to 5 dBm                                                                                         |          |
| Normal RX range of optical module | -8 to -28 dBm                                                                                        |          |
| Max. WiFi TX power                | 2.4 GHz                                                                                              | 20 dBm   |
|                                   | 5 GHz                                                                                                | 20 dBm   |
| MIMO                              | 2.4 GHz                                                                                              | 2 x 2    |
|                                   | 5 GHz                                                                                                | 2 x 2    |
| Max. WiFi radio rate              | 2.4 GHz                                                                                              | 300 Mbps |
|                                   | 5 GHz                                                                                                | 1.2 Gbps |
| Antenna gain                      | 2.4 GHz                                                                                              | 1 dBi    |
|                                   | 5 GHz                                                                                                | 3 dBi    |
| Operating temperature             | -15 to 45° C (5 to 113° F)                                                                           |          |



|                    |                          |
|--------------------|--------------------------|
| Operating humidity | 10 to 90% non-condensing |
| Certifications     | FCC, IC, CE              |

## LEDs

|            |                                                                                                                                                                                                                        |
|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PON status | (3) signal LEDs                                                                                                                                                                                                        |
|            |  All-OFF: bootup                                                                                                                      |
|            |  1x orange: signal too low<br> < -28 dB              |
|            |  1x white: signal low<br> ≥ -28 dB                   |
|            |  2x white: signal good<br> ≥ -25 dB                  |
|            |  3x white: signal strong<br> ≥ -11 dB                |
|            |  1x orange + 2x white: signal too strong<br> ≥ -8 dB |
|            |  3x orange: no signal                                                                                                                 |
|            |  LEDs alternate between orange + white + orange and a signal strength indicator: No authority                                       |

|          |                                                                     |
|----------|---------------------------------------------------------------------|
| Ethernet | Steady white: link up<br>Blinking white: activity<br>OFF: link down |
| Power    | White: ON                                                           |

## Software

|                               |                                                                                                        |
|-------------------------------|--------------------------------------------------------------------------------------------------------|
| Mode                          | ONU/ONT Layer 2/3 Ethernet switch                                                                      |
| Services                      | Web server, telnet, NAT, bridging and routing, firewall features, and application passthrough features |
| Utilities                     | Dashboard, monitoring, alarms, and logs                                                                |
| Other                         | Remote reset, remote reboot, remote firmware upgrade, VLAN support                                     |
| Security                      | GEM Port Encryption                                                                                    |
| Ubiquiti specific features    | UBNT Discovery and UISP Mobile app                                                                     |
| WiFi standards                | 802.11 b/g<br>WiFi 4/WiFi 5/WiFi 6                                                                     |
| Wireless security             | WEP, WPA-PSK, WPA-Enterprise (WPA/WPA2/WPA3, TKIP/AES)                                                 |
| Minimum software requirements | Any modern web browser (Google Chrome™ recommended)                                                    |

## Fiber

|                      |                       |
|----------------------|-----------------------|
| Operating wavelength | 1310 nm TX/1490 nm RX |
|----------------------|-----------------------|



|                                               |                |
|-----------------------------------------------|----------------|
| Optical interface downstream nominal bit rate | 2488.32 Mbit/s |
| Optical interface upstream nominal bit rate   | 1244.16 Mbit/s |
| Physical reach                                | 20 km          |

## Supported Data Rates

|                   |                                                           |
|-------------------|-----------------------------------------------------------|
| 802.11b           | 1, 2, 5.5, 11 Mbps                                        |
| 802.11g           | 6, 9, 12, 18, 24, 36, 48, 54 Mbps                         |
| 802.11n (WiFi 4)  | 6.5 Mbps to 300 Mbps (MCS0 - MCS15, HT 20/40)             |
| 802.11ac (WiFi 5) | 6.5 Mbps to 866.7 Mbps (MCS0 - MCS9 NSS1/2, VHT 20/40/80) |
| 802.11ax (WiFi 6) | 8.6 Mbps to 1.2 Gbps (MCS0 - MCS11 NSS1/2, HE 20/40/80)   |



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