UFiber WiFi6
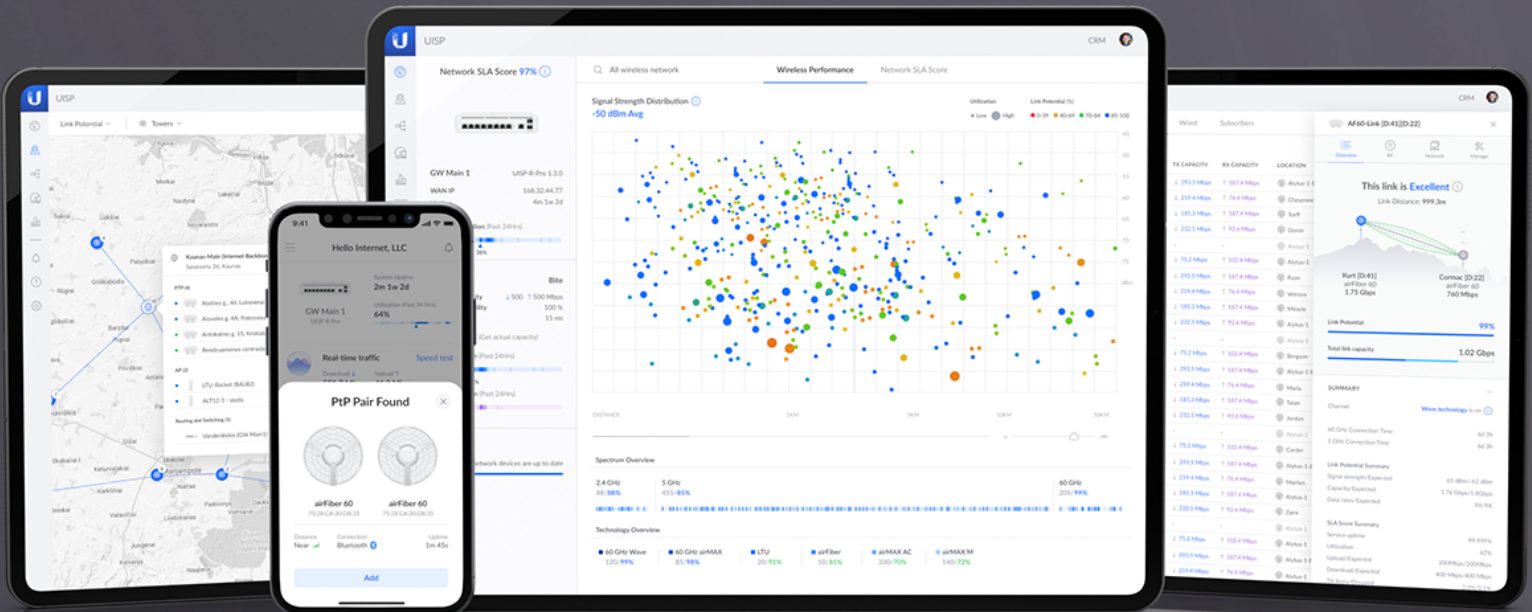
UFiber WiFi6 GPON CPE

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 1.244 Gbps upstream	
Networking interfaces	(1) SC/APC, ITU-G.984 GPON WAN port (4) GbE RJ45 LAN ports WiFi 802.11ax 5/2.4GHz channels	
PoE interface	(1) PoE in, 24V passive PoE	
Management interface	Ethernet in-band PON	
Button	Factory-reset	
Max. power consumption	11W	
Power method	USB-C 5VDC, 3A 24V passive PoE, 0.5A	
Power supply	5VDC, 3A power adapter, 1.5 m cord (included) Passive PoE 2-pair (4, 5+; 7, 8-)	
Supported voltage range	10-30VDC passive PoE 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 < -28 dB
	1x white: signal low ≥ -28 dB
	2x white: signal good ≥ -25 dB
	3x white: signal strong ≥ -11 dB
	1x orange + 2x white: signal too strong ≥ -8 dB
	3x orange: no signal
	LEDs alternate between orange + white + orange and a signal strength indicator: No authority

Ethernet	Steady white: link up Blinking white: activity 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 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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