

UB-UF-WIFI6

Ubiquiti Ufiber WiFi 6 GPON CPE with 4 Ethernet Ports

Product Overview

Ubiquiti UF-WIFI6 Ufiber WiFi 6 GPON CPE with 4 Ethernet Ports, 2.488 Gbps downstream, 1.244 Gbps upstream, 1x SC/APC, ITU-G.984 GPON WAN Port, 4x GbE RJ45 LAN Ports, WiFi 802.11ax 5 / 2.4 GHz channels



Specifications

Overview:

Ufiber WiFi6 GPON CPE

SKU: UF-WiFi6-US

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.

Features:

- 2x2, high-efficiency WiFi 6
- 2.4 GHz band (2x2 MIMO) with a 300 Mbps radio rate
- 5 GHz band (2x2 MU-MIMO and OFDMA) with a 1.2 Gbps radio rate
- 2.4 Gbps max downstream line rate
- 1.2 Gbps max upstream line rate
- Establishes GPON links up to 20 km
- Powerful Layer 2/3 management features
- (1) GPON WAN port
- (4) GbE RJ45 LAN ports
- Powered with the included power adapter or passive PoE
- Internal WiFi 6 (802.11ax) antennas

Specifications:

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Product Specification Sheet

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Specifications

Product Code	UB-UF-WIFI6
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Mechanical

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

Processor	Dual-core MIPS 1004 Kc at 900 MHz
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Memory	256 MB RAM
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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 5/2.4 GHz channels

PoE interface	(1) PoE in, 24V passive PoE
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Management interface	Ethernet in-band
	PON

Button	Factory-reset
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Max. power consumption	11W
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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 to 30VDC passive PoE
	5VDC adapter

Normal TX range of optical module	0.5 to 5 dBm
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Normal RX range of optical module	-8 to -28 dBm
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Max. WiFi TX power

2.4 Ghz	20 dBm
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5 Ghz	20 dBm
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MIMO

2.4 Ghz	2 x 2
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5 Ghz	2 x 2
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Max. WiFi radio rate

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Product Specification Sheet

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 degrees C (5 to 113 degrees F)
Operating humidity	10 to 90% noncondensing
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

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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)

Product Information Online

For the latest product information, availability and purchasing details, please visit the product page:

Product page: <https://www.comx.co.za/UB-UF-WIFI6-Ubiquiti-UFiber-WiFi-6-GPON-CPE-with-4-Buy-p-267171.php>

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