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Product Specification Sheet

U5G-MAX-OUT

Ubiquiti UniFi 5G Max Outdoor Modem

Product Overview

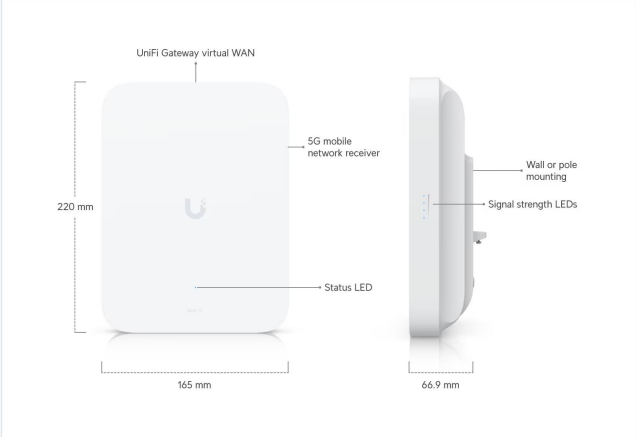
Ubiquiti UniFi 5G Max Outdoor Modem, U5G-Max-Outdoor, 1x 2.5 GbE RJ45 Port, 5G NR and LTE Radio, 1x Nano SIM, 1x Nano-SIM or eSIM, 1x PoE Input, 6x Embedded Cellular antennas, 2x High-Gain for downlink











Specifications

Overview Summary:

Secure reliable high-speed internet connectivity with the Ubiquiti UniFi 5G Max Outdoor Modem, the ultimate solution for businesses and remote locations in South Africa. This rugged, weather-resistant device delivers up to 3.4 Gbps of cellular performance using advanced 5G NR and LTE networks, making it perfect for primary internet access or resilient failover when wired connections are unavailable.

Designed for seamless integration with UniFi consoles and Cloud Gateways, this modem features dual SIM and eSIM support for automatic carrier switching to ensure you stay connected no matter the location. With its powerful high-gain antennas and PoE power input, installation is simple and performance remains stable even in challenging environmental conditions.

Elevate your network infrastructure today by buy now the Ubiquiti UniFi 5G Max Outdoor Modem for a future-proof connectivity solution that prioritizes speed, reliability, and ease of deployment across all major South African carriers.

Performance tier: High-end Enterprise

Uses: Remote office internet, business continuity backup, outdoor site connectivity, failover WAN, temporary location access

Overview:

The Ubiquiti UniFi 5G Max Outdoor modem delivers high-performance cellular connectivity designed specifically for demanding outdoor environments. This device supports advanced 5G NR and LTE networks with certified compatibility across major US carriers, ensuring reliable internet access for primary connections or resilient failover scenarios. Its weather-ready enclosure integrates multiple embedded and directional antennas to maintain strong signal reception even in challenging conditions.

Description:

The Ubiquiti UniFi 5G Max Outdoor modem provides up to 3.4 Gbps cellular performance in a rugged, weather-resistant enclosure. It seamlessly integrates with UniFi Cloud Gateways for centralized management and includes dual SIM support with eSIM capability for flexible carrier switching. The unit connects to your network infrastructure via a high-speed 2.5 GbE port and receives power through PoE, making it an ideal solution for remote locations where wired broadband is unavailable or unreliable.

This modem represents a significant upgrade in cellular connectivity, offering the speed required for bandwidth-intensive workloads while maintaining ease of deployment. The integration of high-gain antennas specifically optimized for downlink performance ensures consistent speeds and stability for business operations or temporary sites. With support for extensive frequency bands across 5G NR, LTE, and legacy networks, it provides future-proof reliability.

Features:

Key Benefits

- Delivers high-speed 5G and LTE connectivity optimized for UniFi gateways
- Certified for reliable operation on AT&T, T-Mobile, and Verizon networks
- Supports dual SIM configurations including eSIM for seamless carrier redundancy
- Durable aluminum-alloy construction handles extreme weather conditions

The device is engineered to withstand harsh outdoor elements with an IPX6 rating by default and up to IP67 when the cable gland door kit is installed. This level of protection ensures longevity regardless of rain, dust, or temperature fluctuations. The

modular design allows for flexible mounting options on poles or walls, accommodating pipe diameters between 1-2.5 inches.

Connectivity and Performance

- 1x 2.5 GbE RJ45 Ethernet port for high-speed data transfer
- PoE input simplifies power delivery during installation
- Works directly with UniFi consoles and Cloud Gateways for unified management
- Supports 5G NSA downlink speeds up to 3.4 Gbps

For technical specifications regarding dimensions, the device measures 220 x 165 x 66.9 mm on its own and expands to 220 x 165 x 122 mm when mounted. The unit weighs approximately 1.2 kg without accessories, while the mounting hardware adds another 130 g. It is constructed from UV-stabilized polycarbonate and aluminum alloy to prevent degradation from sun exposure.

The antenna system includes six embedded cellular antennas alongside two high-gain directional antennas for downlink optimization. These directional elements offer a peak gain of 9 dBi with an 85-degree coverage angle, significantly improving signal strength in low-signal areas. The modem supports a vast array of frequency bands including n1 through n79 for 5G NR and comprehensive LTE band support.

Environmental Durability

- IPX6 rating for high-pressure water jets protection
- IP67 rating when using the cable-gland door kit
- Operates in temperatures ranging from -40 to 65 degrees Celsius
- Withstands wind loading up to 200 km/h

The unit is managed via Ethernet and includes a factory reset button for troubleshooting. It features LED status indicators to monitor system health at a glance. Power consumption peaks at 14.5W, making it highly efficient for continuous outdoor operation.

What's in the box

- Ubiquiti UniFi 5G Max Outdoor Modem (U5G-Max-Outdoor)
- Pole mount and wall mount kit with hardware
- Cable gland door kit for enhanced weather sealing

The part number U5G-MAX-OUT identifies this specific model within the Ubiquiti product line. This device meets NDAA compliance requirements and holds certifications from FCC, IC, CE, PTCRB, GCF, AT&T, T-Mobile, and Verizon. Whether deployed as a primary internet source or a backup WAN for business continuity, it ensures uninterrupted connectivity.

Technical Specifications:

- Model: U5G-Max-Outdoor (Part Number: U5G-MAX-OUT)
- Cellular Radios: 5G NR and LTE with extensive band support
- SIM Support: Nano SIM slot plus eSIM capability
- Antenna Configuration: 6 embedded cellular antennas plus 2 high-gain downlink antennas
- Pole Mount Diameter: Fits pipes from 1 to 2.5 inches (25-63.5 mm)

The modem supports both NSA and SA network modes, offering flexible deployment options depending on carrier availability. In 5G SA mode, it achieves uplink speeds of 650 Mbps alongside downlink performance. For LTE connections, users can expect reliable downlink speeds reaching 1.6 Gbps with uplink capabilities up to 210 Mbps.

Power and Management

- Power Method: Power over Ethernet (PoE)
- Max Power Consumption: 14.5W

- Ambient Operating Humidity: 5 to 95% noncondensing
- Management Interface: Ethernet-based configuration

The system includes a single factory reset button for quick recovery and LED indicators for status monitoring. Its compact design allows for discreet installation on various structures while maintaining robust performance. The inclusion of both pole and wall mounting hardware ensures versatility in placement options.

Certifications and Compliance

- FCC, IC, CE, PTCRB, GCF certified
- Carrier approved for AT&T, T-Mobile, and Verizon networks
- NDAA Compliant

Specifications:

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Specifications	
Product Code	U5G-MAX-OUT
Overview	
Dimensions	Device: 220 x 165 x 66.9 mm
	(8.7 x 6.5 x 2.6")
	With mount: 220 x 165 x 122 mm
	(8.7 x 6.5 x 4.8")
Networking Interface	(1) 2.5 GbE RJ45 port
	5G NR and LTE radio
SIM	(1) Nano SIM
	(1) Nano-SIM or eSIM
PoE Interface	(1) PoE input
Mounting	Pole mount, wall mount (Included)
Weatherproofing	IPX6
	IP67 (With cable-gland door kit)
Mechanical	
Weight	Device: 1.2 kg (2.6 lb)
	Mount: 130 g (4.6 oz)
Enclosure Material	Aluminum-alloy, UV-stabilized polycarbonate
Mount Material	UV-stabilized polycarbonate
Pole Mount Diameter	1-2.5" (25-63.5 mm) on pipe outer diameter
Wind Loading	91N at 200 km/h (20.45 lbf at 125 mph)
Hardware	
Management	Ethernet

5G NR	Category
	5G NR
	Frequency Bands
	n1, n2, n3, n5, n7, n8, n12, n13, n14, n18, n20, n25, n26, n28, n29, n30, n38, n40, n41, n48, n66, n71, n75, n76, n77, n78, n79
	Max. TX Power
	HPUE power class 2: 26 dBm
4G LTE	Frequency Bands
	B1, B2, B3, B4, B5, B7, B8, B12, B13, B14, B17, B18, B19, B20, B25, B26, B28, B29, B30, B32, B34, B38, B39, B40, B41, B42, B43, B46, B48, B66, B71
	Max. TX Power
	HPUE power class 2: 25 dBm
3G UMTS	Frequency Bands
	B1, B2, B4, B5, B8, B19
Peak Data Speed	5G NSA
	Downlink 3.4 Gbps
	Uplink 560 Mbps
	5G SA
	Downlink 1.8 Gbps
	Uplink 650 Mbps
	4G LTE
	Downlink 1.6 Gbps
	Uplink 210 Mbps
Antennas	Type
	(6) Embedded cellular antennas, including
	(2) high-gain for downlink: peak 9 dBi, 85degreesx85degrees
Max. Power Consumption	14.5W
Power Method	PoE
Buttons	(1) Factory-reset
LEDs	?
Ambient Operating Temperature	-40 to 65 degreesC (-40 to 149 degreesF)
Ambient Operating Humidity	5 to 95% noncondensing
NDAA Compliant	?
Certifications	FCC, IC, CE, PTCRB, GCF, AT&T, T-Mobile, Verizon

FAQ

What internet speeds can I expect from the Ubiquiti UniFi 5G Max Outdoor?
The device delivers up to 3.4 Gbps downlink on 5G NSA networks and supports up to 1.6 Gbps on 4G LTE, making it suitable

for bandwidth-intensive workloads.

Is this modem compatible with major US carriers?
Yes, the U5G-Max-Outdoor is certified for use on AT&T, T-Mobile, and Verizon networks to ensure reliable connectivity across different service providers.

Can I use more than one SIM card or eSIM for redundancy?
Absolutely. The modem supports dual SIM configurations with a Nano-SIM slot and an eSIM option, allowing you to switch carriers seamlessly for improved reliability.

How is the device powered and connected to my network?
You can power the unit via PoE input for simplified installation, and it connects to your UniFi Cloud Gateway or console through a single 2.5 GbE RJ45 Ethernet port.

Is this unit designed for outdoor use in harsh weather?
The enclosure features an IPX6 rating and is built with aluminum-alloy and UV-stabilized polycarbonate to withstand extreme temperatures ranging from -40degrees C to 65degreesC.

Product Information Online

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

Product page: https://www.comx-computers.co.za/U5G-MAX-OUT-Ubiquiti-UniFi-5G-Max-Outdoor-Modem-p-341219.php

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