Microamp

U501 5G mmWave CPE

High-Speed FWA Outdoor CPE

Product Overview

The **U501 5G mmWave CPE** is a high-speed packet access FWA terminal designed for outdoor use with an IP65 rating. It supports both 5G mmWave and Sub-6 technologies, working in SA and NSA mode. It is powered by PoE (802.3bt) and provides a 10GbE port that can transmit multi-gigabit high-speed connections for internet access. The **U501 5G mmWave CPE** is based on the Qualcomm SDX65 chipset, which conforms to 3GPP Release 16 standard, and four QTM547 mmWave antennas.

Key Features

Operating Frequency
5G mmWave: n257/n258/n260/n261

Ethernet
10GbE, PoE (802.3bt)

IP Grade
IP65

MIMO
2x2

Chipset
Qualcomm SDX65

Antenna
4x QTM547

About Microamp

Microamp designs and delivers multi-gigabit, ultra-low latency 5G mmWave networks based on purpose-built radios. Leveraging deep tech expertise and a network of partners, Microamp empowers industries, System Integrators, MNOs, governments and research institutions with new dimensions of wireless connectivity.

Specification

Technical Standard	5G SA/NSA, mmWave, Sub-6GHz, 4G LTE
Operating Frequency	**5G mmWave:** n257/n258/n260/n261 **5G Sub-6:** n1/n3/n5/n7/n8/n20/n28/ n38/n40/n41/n77/n78
5G Standard	3GPP Release 16
5G Peak Data Throughput (theoretical)	**DL:** up to 8.9 Gbps (mmWave) **UL:** up to 2.7 Gbps (mmWave)
MIMO	2x2
Chipset	Qualcomm SDX65
Antenna	Four (4) QTM547 mmWave antennas
EIRP	Up to 50 dBm
Ethernet	10GbE, PoE (802.3bt)
USIM	Nano SIM (4FF), optional eSIM
WiFi	2.4 GHz WiFi4 1x1 (only for management)
IPv4/IPv6	Support
USB	USB-C (only for debugging)
Power consumption	< 60 W
Cooling	Fan
Operating environment	**Temperature:** -40°C to 50°C **Humidity:** 5% to 95%
IP Grade	IP65
Install	Pole/wall
Dimensions	214.5 x 132.5 x 60 mm
Weight	1500 g
Package	U501 CPE, Port Cover with Ethernet Cable, PoE Injector and AC Power Cord, Ethernet Cable, Mounting Kit

microamp-solutions.com
hello@microamp-solutions.com