

MobiLink 9750U CAT12 LTE-U Outdoor CPE

Unlicensed 5GHz Band Operation



OVERVIEW

EION MobiLink 9750U is a highly advanced 256 QAM CAT12 outdoor LTE CPE. It is a product solution specifically designed for the Unlicensed 5GHz Band support and to meet the challenging demands of today's high-speed fixed wireless access deployments for residential, business and enterprise users. ML9750U CPE provides 3GPP standard implementation of LTE Release 12 specification.

ML9750U has a built-in 4 x 4 MIMO high gain antenna, that enables a longer reception range from the eNodeB base station. ML9750U supports advanced features such as 4x4 MIMO, 4 Downlink and 2 Uplink Carrier Aggregation, Downlink QAM256 (next release) and Uplink QAM 64. This enables the ML9750U to achieve high throughput and reliable performance.

ML9750U has one Dataport and TR-069 and Web device management; IPv4 and IPv6 DS-Lite Support. It has Layer 2 & 3 support; and QoS for multiple services in Layer 2. The high-gain antenna yields more efficient use of the network with a larger cell reach, carrier class service, and more customer service capabilities.

Advanced Orthogonal Frequency Division Multiplexing (OFDM) modulation enhances performance in non-line-of-sight (NLOS) conditions to ensure immunity to interference and multi-path conflicts typical of deployments in densely populated urban areas. ML9750U is cost-effective, IP67 environmental rated, with a rugged enclosure and is very reliable in extreme weather deployments.

PRODUCT FEATURES

- Unlicensed Band operation
- Cost-effective, compact design, high data throughput with built-in high-gain LTE antenna
- 3GPP Release 12, CAT12.
- Frequency Band: B46 (LTE-U 5GHz)
- Channel Bandwidth: 5, 10, 15 and 20 MHz
- Output Power: 21dBm per Tx
- Antenna: Integrated, 20dBi gain 4Rx/2Tx
- Operation Mode: 4Rx, 2Tx, 4x4 MIMO DL & CA
- 1 x RJ45 Gigabit Ethernet Port
- IPv4 and IPv6 DS-Lite Support
- TR-069 and Web device management support
- L1: DL MIMO 4 x 4
- L2 & L3: Multiple APN; PLMN and Cell selection

Band	Frequency (MHz)	Uplink, Downlink (MHz)	FDD/TDD	Channel Bandwidth (MHz)
46	5200	5150 - 5925	TDD	5,10, 15, 20

ORDERING INFORMATION

Product Code	Product Description
4181-00-97-50U	MobiLink 9750U CAT12 LTE-U Outdoor CPE
4181-00-97-50U-M500	MobiLink 9750U CAT12 LTE-U Outdoor CPE MOQ 500 units

RADIO SPECIFICATIONS

Standard Compliance	3GPP Release 12
LTE UE Category	Cat 12
Operation Mode	TDD, 4Rx, 2Tx, 4x4 MIMO DL &CA
Carrier Aggregation	Contiguous/Non-contiguous
Uplink Modulation	QPSK, 16QAM, 64 QAM
Downlink Modulation	QPSK, 16QAM, 64 QAM, 256QAM (next release)
L1	DL MIMO 4x4
L2 & L3	Multiple APN, PLMN and Cell Selection
Antenna Gain	Integrated, 20dBi gain 4Rx/2Tx
Channel Bandwidth	5, 10, 15 and 20 MHz
Output Power	21 dBm per Antenna port
SIM Support/Authentication	USIM SIM function (1.8V and 3.3V SIM and USIM card)
QoS	Non-GBR, GBR
Data Interface	1 x RJ45 10/100M Ethernet Port SIM support – SIM card slot LED – System, LAN, SIM, RF(4)
Remote Management	TR-069 and Web device management

PHYSICAL, ELECTRICAL & ENVIRONMENTAL

Power Source	100~240VAC
Power Consumption	< 15W
Operating Temperature	-40 C to +55°C
Environmental Rating	IP67 Rugged
Humidity	95% max Non-condensing
Dimensions	335 mm x 330 mm x 71 mm
Weight	3.4 Kg