EION WIRELESS

MobiLink 9750 CAT13/15 Outdoor LTE CPE

CBRS Band Support

OVERVIEW

EION MobiLink 9750 is a highly advanced 256 QAM CAT13/15 outdoor LTE CPE. It is a product solution specifically designed to meet the challenging demands of today's high-speed fixed wireless access deployments for residential, business and enterprise users. ML9750 CPE provides 3GPP standard implementation of LTE Release 12 specification.

ML9750 has a built-in 4 x 4 MIMO high gain antenna, that enables a longer reception range from the eNodeB base station. ML9750 supports advanced features such as 4x4 MIMO, 4 Downlink and 2 Uplink Carrier Aggregation, Downlink QAM256 and Uplink QAM 64. This enables the ML9750 to achieve high throughput and reliable performance.

ML9750 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. ML9750 is cost-effective, IP67 environmental rated, with a rugged enclosure and is very reliable in extreme weather deployments.

PRODUCT FEATURES

• Cost-effective & compact design with built-in high-gain LTE antenna

• 3GPP Release 12, Cat 13/15

• Frequency Band: B38, B40, B41, B42, B43, B48

• Channel Bandwidth: 5, 10, 15 and 20 MHz

• Output Power: 23dBm per Tx

• Antenna Gain: 13dBi in 3.5 GHz, 11dBi in 2.5GHz

• 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

• QOS: Non-GBR, GBR

Band	Frequency (MHz)	Uplink, Downlink (MHz)	FDD/TDD	Channel Bandwidth (MHz)
38	2600	2570 - 2620	TDD	5,10,15,20
40	2300	2300-2400	TDD	5,10,15,20
41	2500	2496-2690	TDD	5,10,15,20
42	3500	3400 - 3600	TDD	5,10,15,20
43	3700	3600 - 3800	TDD	5,10,15,20
48	3600	3550-3700	TDD	10,20

ORDERING INFORMATION

Product Code	Product Description
4181-00-97-50	MobiLink 9750 CAT13/15 Outdoor LTE CPE
4181-00-97-50-M500	MobiLink 9750 CAT13/15 Outdoor LTE CPE MOQ 500 units

RADIO SPECIFICATIONS

Standard Compliance	3GPP Release 12
LTE UE Category	Cat 13/15
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
L1	DL MIMO 4x4
L2 & L3	Multiple APN, PLMN and Cell Selection
Antenna Gain	13 dBi in 3.5 GHz; 11dBi in 2.5GHz
Channel Bandwidth	5, 10, 15 and 20 MHz
Output Power	23 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 Gigabit Ethernet Port USIM
Remote Management	TR-069 and Web device management

PHYSICAL, ELECTRICAL & ENVIRONMENTAL

Power Source	100~240VAC
Power Consumption	< 15W
Operating Temperature	-40 C to +55℃
Environmental	RoHS and WEEE
Radio Enclosure	IP67
Humidity	95% max Non-condensing
Radio Certification	FCC, CE
Dimensions	260 mm x 250 mm x 80 mm
Weight	1.2 Kg