

# MobiLink 6800D

## 5 GHz B46 (LTE-U) + B42/43 CAT7 Outdoor CPE



### OVERVIEW

EION MobiLink 6800D is a cost effective and advanced LTE CAT7 CPE with built-in LTE MU-MIMO antennas. It is intended for outdoor deployments. It can support multiple TDD operations and provides advance features such as 4x4 MIMO, Carrier Aggregation, and QAM64 modulation on the uplink. ML6800D CPE provides up to 23dBm TX power per antenna. The high gain directional patch antenna enables a longer reception range from the base station. This meets the demands of fixed wireless access deployments and high-speed wireless backhaul challenges by the 4G service operators.

The design of MobiLink 6800D is based on the LTE Release 10 specification and able to meet high throughput and availability requirements. 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.

MobiLink 6800D CPE is fully integrated with preloaded device drives and can be self-installed quickly with provided PoE power adapter and mounting bracket accessories. The typical coverage area is 15km with good throughput performance over the air, enabling longer range of reception from the base station. It has industrial IP67 water and dust proof enclosure. The LEDs have been designed to offer a clear sign for user convenience.

### PRODUCT FEATURES

- 3GPP LTE Release 11 Compliant, CAT 7
- 23 dBm transmit power per antenna port
- Bands 42, 43, 46
- Channels 5, 10, 20 MHz
- Operation Mode:
  - 4Rx, 2Tx, DL 4x4 MIMO
  - DL & UL CA (2CC), Optional UL QAM64
- Antenna Gain:
  - B46: 19 dBi (2x2), 15 dBi (4x4)
  - B42/43: 13 dB dBi (2x2)
- Bridge and Router Operation Support
- Support PPT, L2TP and GRE VPN Tunneling clients.
- Gigabit Ethernet connectivity (PoE+)
- LED Indicator: PWR, SYS, NET, SIM, ETH, RF
- Single SIM card sot (2FF)

Band	Frequency (MHz)	Uplink, Downlink (MHz)	FDD/ TDD	Channel Bandwidth (MHz)
42	3500	3400 - 3600	TDD	5,10,15,20
43	3700	3600 - 3800	TDD	5,10,15,20
46	5200	5150-5925	TDD	10, 20

### ORDERING INFORMATION

Product Name	Product Description
4181-35-00-11	MobiLink 6800D 5 GHz B46 (LTE-U) + B42/43 CAT7 Outdoor CPE

## RADIO SPECIFICATIONS

Topology	Standard Wireless LTE
Frequency Range	Refer to the table
Channel Size	5, 10 & 20 MHz Channels
Output Power	23dBm per Antenna port
B46 Antenna Gain	19 dBi (2x2), 15 dBi (4x4)
B46/42/43Gain	B46 (2x2) 15 dBi; B42/43 13dBi (2x2)
Bands	LTE-TDD 42, 43; B46 5150-5925MHz
Operation Mode	4Rx, 2Tx, DL 4*4 MIMO, DL & UL CA (2CC) & Optional UL QAM64
SIM Card	Single SIM card slot (2FF)

## NETWORK SPECIFICATIONS

Network Connection	1 Gigabit Ethernet port
Protocols	IPv4, IPv6 DS-Lite and Multiple PDN
Operational mode	Bridge and Router Operation Support
DHCP	DHCP or Static IP address Assignment, Built-in DHCP Server for LAN Devices
OAM Interfaces	TR-069
Network Configuration	SIM card locking feature, Network selection and cell locking provision
LTE Features	3GPP Release 10, Category 7
Networking Features	<ul style="list-style-type: none"> <li>• VPN Pass-through support</li> <li>• Built-in L2TPV3 &amp; GRE Tunneling Clients</li> <li>• DMZ and Virtual Server Support</li> <li>• IP and Port Filtering Support</li> <li>• USIM and Network PLMN Locking Support</li> <li>• LAN Device Access Control</li> </ul>

## SECURITY

Management Access	Username and Password
Standard	3GPP LTE standard, air interface security, IPSEC AES Encrypted tunnels on all network connections, Per Device KPI key pairs
Firewall & Access Control	Yes

## DATA NETWORKING FEATURES

Management Interface	CLI, Telnet, HTTP, HTTPS
Firmware Upgrade	FTP and HTTP OTA firmware upgrade
Device Factory Default Setting	Yes

## PHYSICAL ELECTRICAL & ENVIRONMENTAL

Mounting Bracket	Yes
Power DC	48V/0.5A PoE DC < 15W
Power Consumption	< 15W
Operating Temperature	-40 C to +55°C
Environmental	RoHS and WEEE
Radio Enclosure	IP67
Relative Humidity	95% max Non-condensing
Radio Certification	Safety, CE
Dimensions	25 x 25 x 7.5 cm
Weight	<2.5 Kg