



MBC-200 LTE MOBILE ROUTER

700 MHz LTE

ADVANCED MOBILE BROADBAND ROUTER

The MBC-200 permits public safety subscribers access to commercial LTE networks as well as migration to the National Public Safety Broadband Network (FirstNet®), allowing public safety agencies to take advantage of the commercial network service available today and access to FirstNet when it becomes available. Using the MBC-200, first responders can access streaming video feeds, online databases, and mobile productivity applications in the field and when traveling to the scene of incident.

FEATURES

Connectivity to Public Safety Broadband Network Band 14, as well as Commercial LTE networks.

Configuration options to provide network redundancy with automatic switchover based on loss of connection for seamless operation.

Secure IPSec VPN connectivity for secure remote access to agency applications, websites, and databases.

WiFi® Client and Access Point for Wi-Fi hotspot capability at the incident scene.

WAAS enabled GPS for enhanced location accuracy.

ADVANCED DESIGN

The MBC-200 fully supports 3GPP Release 8 requirements today and is easily upgradable to Release 9. This means the MBC-200 is capable of advanced LTE modulations, including 2x2 Multiple Input/Multiple Output (MIMO) support, Quality of Service, and Access Control features required to ensure public safety users receive priority broadband transmissions and guaranteed bandwidth for mission-critical support of high bandwidth applications. Rule-based port switching enables IP control for such features as segregating traffic to designated bearers and defining the WAN fallback order. Access to commercial and private LTE networks provides seamless

connectivity through redundant data connections with automatic switchover based on loss of connectivity.

Using the MBC-200, first responders can receive streaming video feeds, access critical databases, and provide geo-location information simultaneously with multiple uplink/downlink bearer paths. To provide the best network coverage, the MBC-200 uses external transmit and receive antennas. To support location-based services and situational awareness applications, MBC-200 includes an internal Wide Area Augmentation System (WAAS) enabled GPS receiver.

GENERAL SPECIFICATIONS

Dimensions (H x W x D):

1.8 x 6.0 x 5.5 in.
(4.5 x 15.25 x 14.0 cm)

Weight:

2.5 lb (1.13 kg)

Input Voltage:

10 to 30 VDC

Power Consumption:

Rx: 5.5W Cell and GPS
7.7W with Wi-Fi

Tx: 9.2W Cell and GPS
13.0W with Wi-Fi

Mounting:

Compact enclosure suitable for trunk or in-vehicle mounting

Operating Temperature Range:

-22 to +158°F (-30 to +70°C)

Humidity:

5 to 95% non-condensing

Security:

IPSEC with IKEv1, IKEv2, Mobike

Technical specifications are subject to change without notice. Product sales are subject to applicable U.S. export control laws.

About Harris Corporation

Harris Corporation is a leading technology innovator that creates mission-critical solutions that connect, inform and protect the world. The company's advanced technology provides information and insight to customers operating in demanding environments from ocean to orbit and everywhere in between. Harris has approximately \$8 billion in annual revenue and supports customers in 125 countries through four customer-focused business segments: Communication Systems, Space and Intelligence Systems, Electronic Systems, and Critical Networks.

PUBLIC SAFETY 700 MHZ BAND 14 TRANSMITTER

Protocol

3GPP Release 8

Frequency Range (MHz):	788-798
Channel Size (MHz):	5 or 10
Maximum Output Power (dBm):	+23
Spectrum Emissions Mask:	Per 3GPP TS 36.101
Uplink Access Methodology:	DFT (SC-FDMA)
Uplink Modulation:	QPSK, 16QAM

PUBLIC SAFETY 700 MHZ BAND 14 RECEIVER

Protocol

3GPP Release 8

Frequency Range (MHz):	758-768
Channel Size (MHz):	5 or 10
Receiver Diversity:	2x2 MIMO
Downlink Access Methodology:	OFDMA
Downlink Modulation:	QPSK, 16QAM, 64QAM

COMMERCIAL CELLULAR PROTOCOLS

Band 13:	700 MHz DL MIMO, UL SISO
Band 17:	700 MHz DL MIMO, UL SISO
CDMA:	EVDO Rev A; 1xEVDO Rev0 (IS-856); 1xRTT (IS-2000)
GSM:	EDGE/GPRS, UMTS/HSPA

INTERFACES

Connection Interfaces:	3 10/100 Mbps Ethernet 2 USB USB MiniB Console Port
Antennas:	3 SMA-RP (Wi-Fi) 2 SMA Cellular 0 2 SMA Cellular 1 1 SMA (GPS)
Device Management:	SNMP, Embedded HTTP Server, OMA-DM for network interfaces
LED Indicators:	WWAN0 (Cellular 0), WWAN1 (Cellular 1), Wi-Fi, GPS, Power, ETH0, ETH1, ETH2, Status
Wireless Interface:	IEEE 802.11 b/g/n WPA2, AES-CCM & TKIP Encryption, 64/128/152 bit WEP Security 6 Mbps up to 54 Mbps Data Rates

REGULATORY AND ENVIRONMENTAL

FCC Certification:	FCC Part 15, Subpart B, Class A
Carrier/Standards Body Certifications:	Verizon Carrier Certification PFCRB approval
5 MHz BW:	5M00W7D
10 MHz BW:	10M0W7D
Environmental:	MIL-STD-810G
ESD Immunity:	IEC 61000-4-2
Interference-Causing Equipment Standard:	ICES-003

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INFORM AND PROTECT™