



# Expedience® Mobile Subscriber Unit

High performance mobile solution for wireless broadband access



Motorola's Expedience Mobile Subscriber Unit delivers flexible, high-speed connectivity for nomadic vehicular wireless broadband access. Performance in the field and on the bottom line.

Motorola's Expedience Mobile Subscriber Unit (MSU) is a robust broadband wireless access modem intended for mobile market applications such as public safety and transportation. It is a true Plug & Play Ethernet device, requiring no special drivers to be installed in an interfacing computer. Particularly important for Public Safety applications is the compatibility with standard IP software applications, eliminating the need to purchase special proprietary solutions to run on a mobile data platform. The MSU is also well suited for backhaul of a temporary emergency LAN that can be set up for first responders in emergency situations. The MSU incorporates automatic adaptive modulation for increased throughput and network capacity. Applications supported include data, VoIP, and streaming video.

The MSU is designed for automotive trunk mounting. It is operable over a standard vehicular voltage range of 11.7-15.9 VDC and a temperature range of -40° to +60° Celsius.

The unit functions as an Ethernet bridge (Layer 2) device, and is practical for single host or LAN applica-

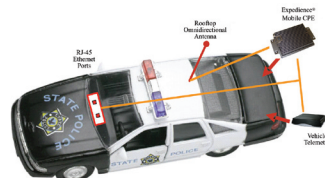
tions interfacing a standard Ethernet 10base-T RJ-45 connector. The MSU includes cabling for Ethernet connection and DC power feed, and is available with either a magnetic mount or through-hole mount antenna.

## BENEFITS

- Weatherproof case suitable for land and marine vehicular applications
- No drivers or special configuration needed for user's PC
- Fully interoperable with Motorola's Expedience Broadband Wireless Access System
- Self-contained integrated radio and modem
- Robust, environmentally-hardened construction
- Adaptive high-order modulation 4/16/64 QAM

**SPECIFICATION SHEET**

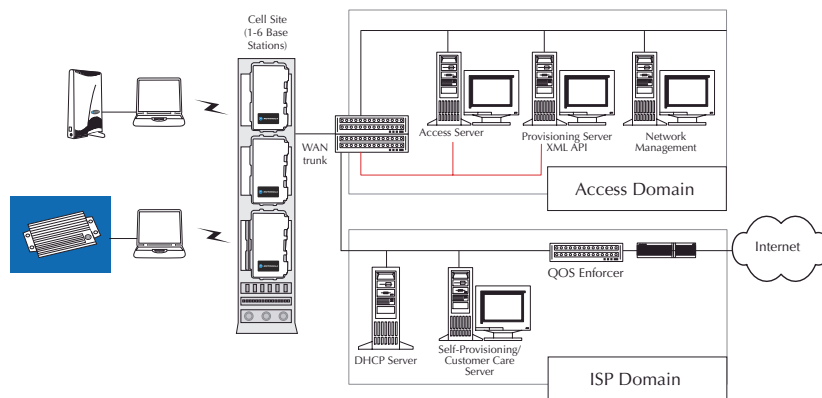
**MOTOROLA MOBILE SUBSCRIBER UNIT FOR EXPEDIENCE®**



**MOTOwi4™**

The Motorola Expedience Mobile Subscriber Unit (MSU) is part of the MOTOwi4 family of broadband wireless access technologies, a comprehensive platform of wireless broadband solutions and services. Designed to complement and complete operator networks, MOTOwi4 solutions address a broad range of applications across operator segments. MOTOwi4 is extending the reach and capabilities of operator networks, from basic connections in unserved regions to high-speed, mobile access in dense metro markets. MOTOwi4 solutions help people access information and share content wherever they might be.

<b>MOTOROLA EXPEDIENCE MOBILE SUBSCRIBER UNIT SPECIFICATIONS</b>	
Channel Bandwidth (2.3, 2.5 GHz) (3.x GHz)	3/3.5/5/5.5/6 MHz 3/3.5/5/5.5/6/7 MHz
Frequency Band (MHz)	
MSU-2300	2300-2500 MHz
MSU-2510	2496-2690 MHz
MSU-3310	3300-3400 MHz
MSU-3510	3400-3600 MHz
MSU-3710	3600-3800 MHz
Modulation	OFDM - 4/16/64/ QAM
Operating Mode	Time Division Duplex (TDD)
RF Output Power	2 Watts
EIRP (Omnidirectional Antenna)	2 Watts
RF Receive Sensitivity	Better than -95dBm (2.6 GHz, 6 MHz channel, 4 QAM)
IP Addresses Supported	15 (static or dynamic)
Management Interfaces	SNMP MIB II, Web Server, Telnet, Syslog
Data Interface	IEEE 802.3 Ethernet via RJ-45 connector
Average Power Consumption	10 Watts
Power Requirements	+11.7 to 15.9VDC
Enclosure	Weatherproof housing, flange or bracket mounting
Temperature Range	-40° to +60°C
Humidity Range	0% to 100%
Dimensions (MSU2510;3310;3510;3710)	12.8 in (H) x 7.9 in (W) x 2 in (D) 32 cm (H) x 20 cm (W) x 5 cm (D)
(MSU2300)	8.2 in (H) x 5.7 in (W) x 1.3 in (D) 21 cm (H) x 14 cm (W) x 3 cm (D)
Weight	4 lb (1.8 kg)
Regulatory Approvals MSU-2300 MSU-2510 MSU-3510/3310	Approvals pending for use outside North America FCC, IC ETSI



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