



Expedience® Outdoor Subscriber Unit

High performance
NLOS outdoor
solution for wireless
broadband access



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

Motorola's Expedience Outdoor Subscriber Unit (OSU) is an environmentally-hardened broadband wireless access modem intended for business applications, where a permanent mount install is required for physical security. It is a true Plug & Play Ethernet device that is well suited for extended range coverage, and requires absolutely no drivers to be added to the subscriber's computer. The OSU incorporates automatic adaptive modulation for increased throughput and network capacity.

The OSU is designed to be installed without the use of special tools or test equipment. This unit is recommended for extended range NLOS coverage areas, where the benefits of an outdoor installation will compensate for low signal levels.

The unit functions as an Ethernet bridge (Layer 2) device, and is practical for single host or SOHO LAN applications interfacing a standard Ethernet 10base-T RJ-45 connector.

The OSU includes a power supply allowing it to be driven by any 110/220V 50/60 Hz source. An optional data line surge protector is available, and is

recommended for areas with a high incidence of lightning storms.

BENEFITS

- Self-contained integrated radio and modem
- Weatherproof, eave-, wall-, or pole-mountable
- Extended range up to 32Km
- Adaptive high-order modulation 4/16/64 QAM
- No system configuration needed for user's PC
- No software to load on subscriber's computer
- Small/medium enterprise markets
- Residential markets

SPECIFICATION SHEET

MOTOROLA OUTDOOR SUBSCRIBER UNIT FOR EXPEDIENCE®

MOTOWi4™

The Motorola Expedience Outdoor Subscriber Unit (OSU) 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.

MOTOROLA EXPEDIENCE OUTDOOR SUBSCRIBER UNIT SPECIFICATIONS	
Channel Bandwidth (2.5 GHz)	3/3.5/5/5.5/6 MHz
(3.x GHz)	3/3.5/5/5.5/6/7 MHz
Frequency Band (MHz)	
OSU-3310	3300-3400 MHz
OSU-3510	3400-3600 MHz
OSU-3710	3600-3800 MHz
Modulation	OFDM - 4/16/64/ QAM
Operating Mode	Time Division Duplex (TDD)
RF Output Power	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
Power Requirements	100 -240VAC, 50/60 Hz
Average Power Consumption	15 Watts (max)
Enclosure	Weatherproof housing, sealed enclosure
Temperature Range	-40° to +60°C (operating)
Humidity Range	0% to 100%
Dimensions	10 in (H) x 7.6 in (W) x 2.4 in (D) 25.5 cm (H) x 19.4 cm (W) x 6 cm (D)
Regulatory Approvals	Safety/EMC/Spectral certification per US, CDN, EU, and other national regulatory bodies

