

# OS-230, OS-250 & OS-350

## Mobile WiMAX Outdoor Modem

*Delivering Wireless Broadband In Challenging Environments*



### Features

- IEEE 802.16e Standard Compliant (Mobile WiMAX)
- Non Line of Sight (NLOS) Deployment
- WiMAX Wave 2 Compliant
- TDD/FDD Scalable OFDMA
- 5, 7, 10MHz Channel Bandwidth
- MIMO Matrix A and B
- Up to 27dBm Transmission Power
- 14dBi Antenna Gain
- Up to 30Mbps Throughput \*
- One 10/100 Base-T LAN
- PoE, 802.3af Compliant
- IP Router with Security
- 5 Classes of QoS Support
- Auto Provisioning
- Over-the-air Firmware Upgrade

\* Subject to environmental conditions

### Build Cost-Effective Infrastructure

The OS series provides Operators a quick and cost-effective avenue to build wireless broadband infrastructure in remote areas. Operators are able to create wireless networks, even in challenging environments where indoor penetration is difficult or line of sight is unattainable. Meanwhile, the OS series is also advantageous to enterprises as users can enjoy the convenience of wireless broadband without the delays and costs of leasing or constructing a wired infrastructure.

### Low Cost Installation

This device is designed to be installed outdoors or in open areas which are exposed to rigorous weather conditions. It is built with a robust, weather-proof enclosure that shields the unit from rain, wind and dust. Additionally, as power supply for outdoor units is generally limited, the OS series supports Power over Ethernet (PoE) which simplifies onsite installation efforts and reduces cost.

### QoS for Optimized Bandwidth

The 802.16e standard employs 5 levels of data packet classification for services such as voice, video streaming, gaming and enterprise leased line. Hence, real time packets from applications such as a telephone call are given higher priority. By classifying applications into different QoS levels, bandwidth can be efficiently utilized while the quality of each service is guaranteed.

### Remote Provision and Management

The OS series is built with the TR069 interface for a standard configuration system to facilitate batch remote configuration and over-the-air firmware update. Additionally, remote troubleshooting interfaces are available via telnet and the Web to assist second tier support personnel. This relieves Operators from heavy maintenance efforts.



Enjoy WiMAX connectivity, even in challenging environments with the OS Series Mobile WiMAX Outdoor Modem

# Technical Details

## Wireless Specifications

Standard Compliance:	IEEE 802.16e-2005
Modulation:	· Scalable OFDMA Wave 2 Compliant · QPSK, 16QAM, 64QAM (DL only)
Duplexing Mode:	TDD/FDD
Data Rate:	· Up to 30Mbps (DL), 6Mbps (UL)
Frequency Band Support:	· 2.3 - 2.4 GHz (OS230) · 2.5 - 2.7 GHz (OS250) · 3.3 - 3.6 GHz (OS350)
Frequency Bandwidth:	5MHz, 7MHz, 10MHz (Other BW available)
RF Output Power:	Max. 27dBm (Differs, depending on country regulations)
Receive Sensitivity (10MHz):	· -96dBm @ QPSK 1/2 · -93dBm @ QPSK 3/4 · -90dBm @ 16QAM 1/2 · -87dBm @ 16QAM 3/4 · -78dBm @ 64QAM

## Interface Specifications

Antenna:	14dBi, Dual Polarization
Connectivity:	1 Ethernet Port (Power Over Ethernet)

## Management Specifications

Authentication:	EAP-TLS, EAP-TTLS PKMv2, X.509
Encryption:	AES, DES, 3DES
WiMAX QoS:	UGS, rt-VR, ert-VR, nrt-VR, BE
Management Interface:	Web, Telnet, CLI, SNMP, MIB 802.16i
Firmware Update :	Web, TR069, HTTP, TFTP, FTP
Configuration Management:	Channel Scan, BS Profiles, User Name & Password, Certification Upload, Router Settings, Current Status and Settings
Monitoring Management:	RSSI, CINR, Tx Power, DL/UL Throughput, Device Log

## Network Specifications

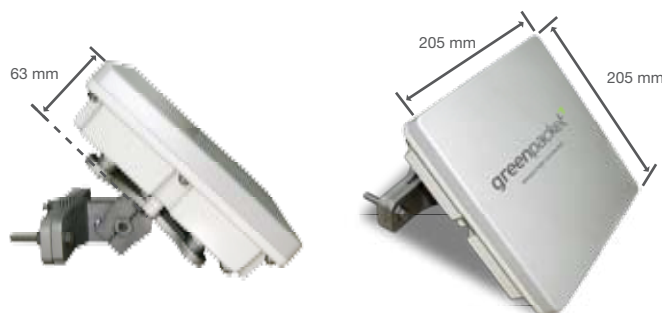
Firewall:	IP/Port/Mac Based Filtering
DHCP (LAN Port):	DHCP Server with NAT
DHCP (WAN Port):	Static IP or DHCP Client, IPv4, IPv6
DNS:	Dynamic Domain Name Server
Virtual Server:	SIP ALG, Port Forwarding
VPN/VLAN:	VPN/VLAN Pass-through
Network Timing Protocol (NTP):	Supports NTP settings

## Environmental Specifications

Dimension:	205mm x 205mm x 55mm (L x W x H)
Power Supply:	48VDC/0.31A
Power Consumption:	< 12.9W
Temperature:	- 40°C - 60°C (Operating), -60°C - 70°C (Storing)
Humidity:	Up to 95% non-condensing
Environmental and Regulatory:	CE Regulatory (Subject to customer's requirements. Regulations differ across countries.)
Material:	RoHS compliant

## Package Contents

- 1 x OS Series Mobile WiMAX Outdoor Modem
- 1 x Power Adapter 100V~240V AC-In, 48VDC/0.31A DC-out
- 1 x RJ45 Network Cable (3 meters)
- 1 x Mounting Kit
- 1 x Quick Installation Guide



\* Product specifications are subject to change without prior notice.

For more information on Green Packet's products and solutions, please contact us at [inquiry.gp@greenpacket.com](mailto:inquiry.gp@greenpacket.com)

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Green Packet's products and solutions empower Fixed Line, Mobile, VoIP and WiMAX Operators to offer a better end-user experience, while accelerating time-to-market and gaining first mover advantage.

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