



MICROELECTRONICS TECHNOLOGY INC.

MTI PRESENTS

IEEE 802.16e-2005 WiMAX MIMO Outdoor CPE

WiMAX XS-615-25M

Key Features

- IEEE 802.16-2005 (16e), based on Sequoia SoC
- Fully compliant wave 2 WiMAX
- Support MIMO technology to improve transmission speed and coverage
- Support Matrix A, Maximum Ratio Combining and Matrix B, to enhance receiving signal quality
- Support Quality-of-Service and Scheduling
- Provide LED for unit status display

Microelectronics Technology Inc. is proud to be offering a full portfolio of Wave 2 ready outdoor equipment and devices for enterprise, small business and residential with voice and data services. **XS-615-25M** offers the best possible signal strength and a highly sensitive receiver with extremely stable RF signal, which provides the best in class radio performance in market.

XS-615-25M provides the most cost-effective solution to fulfill BWA access requirement from customer, especially with the core of MTI WiMAX MIMO technologies such as Space Time Coding, Maximum Ratio Combining and Sub-Channelization. **XS-615-25M** leverages MTI's proud RF design experiences and multi-years outdoor unit manufacturing capability, provides our customer a robust quality and the best performance in WiMAX applications. Biggest advantages are easy installation and the base station infrastructure requirements will be greatly reduced. **XS-615-25M** is designed to deliver fast and secure voice, video and data services to enterprise, residential and SOHO subscribers and enabling a profitable business model for operators.

Patch MIMO
Antenna



OMNI Antenna

XS-615-25M Specifications

WiMAX Specifications		Mechanical Specifications	
Air Interface	IEEE 802.16-2005 (Scalable OFDMA)	Mechanical Dimension (L x W x H)	228 x 202 x 70 mm
Frequency Range / Duplex Mode	3.5 GHz / TDD	Connector Interface	<ul style="list-style-type: none"> One shielded RJ-45 (5A, 568A and 568B) connector Two N-type antenna connectors (Optional)
Channel Bandwidth	3.5 MHz, 4.375MHz, 5MHz, 7MHz, 8.75MHz, and 10MHz	Environmental Specifications	
Quality-of-Service and Scheduling	<ul style="list-style-type: none"> Unscheduled Grant Service (UGS) Real-Time Variable Rate (RT-VR) Non-Real-Time Variable Rate (NRT-VR) Real Effort (RE) Extended Real-Time Variable Rate (ERT-VR) 	Operating Condition	-40 to +60°C with 5 to 85 % humidity (non-condensing)
Privacy	<ul style="list-style-type: none"> EAP-based authorization CMAC authentication CCM Mode 128-bit AES 	Storage Condition	-40 to +85°C with 5 to 85 % humidity (non-condensing)
Name Duration and Cycle Prefix	3 ms and 1/8	Software Feature	
Adaptive Modulation	QPSK, 16QAM and 64QAM (both DL and UL)	Network Management	<ul style="list-style-type: none"> Remote Management (RSM) Compliance Over the Air Software Upgrade Capabilities Browser based user Interface Serial console access to CPE Configuration (Backup/ Restore/Export)
Maximum Transmit Power of antenna port	25 dBm	VPN	<ul style="list-style-type: none"> Pass Through IPsec Support NAT Support L2TP Support
Receiver Sensitivity	-93 dBm at QPSK-1/2 CTC 10MHz BW	Firewall	Packet Filtering on ip/port
MIMO Configurations	<ul style="list-style-type: none"> Maximum Ratio Combining (MRC) Spatial Diversity - Space Time Coding (STC) Spatial Multiplexing (MIMO 2x2 on DL) 	Networking	<ul style="list-style-type: none"> Port Forwarding Network Time Protocol (NTP) support IPv6 Support (Pass Through)
Power Supply Specification		Networking	<ul style="list-style-type: none"> Configurable static IP addressing Configurable subnet mask Configurable gateway
PoE Compliant with IEEE 802.3af AC Input 70 to 264VAC, DC Output 48VDC			
Antenna			
Patch or Omni Antenna (Optional)			
Ordering Information			
Model number XS-615-25M			

Product appearance and specifications are subject to change without prior notice.