



GM6225/GM6235
Mini PCI-E WiMAX Modem

Teltonika GM6225 and GM6235 PCI Express Mini Card WiMAX modems offer high speed data rate connectivity via WiMAX networks. Both modems are compliant with IEEE802.16e-2005 WiMAX Wave 2 standard thus they support mobile wireless connectivity and is ideally suited for laptops, netbooks or any device with a Mini PCI-E socket. GM6225/GM6235 incorporates a separate embedded CPU for running connection management applications therefore only a few drivers are needed on a host device. GM6225/GM6235 implements dual independent transmit chain with an advanced 2Tx closed-loop diversity (2T-CLD) algorithm which provides significantly increased link budget, improved cell coverage, and superior mobile performance. 2T-CLD delivers diversity gains well beyond single Tx solutions and ensures the best diversity for any channel environment.

## Key Features:

- Hostless Operation
- IEEE 802.16e-2005 Compliant (Mobile WiMAX)
- WiMAX Wave 2 Compliant
- PCI Express Mini Card form factor
- USB 2.0 Interface
- Embedded Web Server
- Integrated Firewall functionality
- Operates within 2.5-2.7 GHz or 3.3-3.6 GHz Frequency Range
- 2 Tx with Closed Loop Diversity
- 40 Mbps throughput (combined downlink and uplink)
- MIMO Matrix A and B for Improved Transmission Speed and Coverage
- 2 x U.FL antenna connectors
- Compatible with Windows XP/Vista/7, Linux, Mac OS X







## **PECIFICATIONS**

Standard Compliant IEEE 802.16e-2005

S-OFDMA Air Interface

Frequency Band 2.5-2.7GHz or 3.3-3.8 GHz

Channel Bandwidth 3 MHz, 3.5 MHz, 5 MHz, 6 MHz, 7 MHz, 8.75 MHz and 10 MHz

Modulation Adaptive QPSK, 16QAM, 64QAM MIMO MRC, Matrix A + MRC, Matrix B All I/O Beamforming Items Beamforming

RF Output Power 2x25 dBm @ 2.5-27GHz; 2x23 dBm @ 3.3-3.6GHz

RX Sensitivity: QPSK1/2: -99.5 @ 2.5 GHz and 10 MHz BW

16QAM1/2: -94.29 @ 2.5 GHz and 10 MHz BW QPSK1/2: -99 @ 3.5 GHz and 10 MHz BW 16QAM1/2: -93.8 @ 3.5 GHz and 10 MHz BW

Hard / Optimized Handover Handover

UGS, Real-Time-VR, Non Real-Time-VR, Best Effort, ERT-VR QoS Mechanism

Authentication EAP-TLS, EAP-TTLS-MSCHAPv2

3 CCM-Mode 128-bit AES Encryption

Error Handling HARQ UL and DL, up to Category 7

Throughput 40 Mbps Total DL + UL

Windows XP/Vista/7, Linux, Mac OS X OS Support

Software **Hostless Operation** 

## Electrical, Mechanical & Environmental:

Dimensions (H x W x D) 51mm x 30mm x 5mm

Weight 10g

**Power Supply** Mini PCI-E (3.3V)

**Power Consumption** < 3W **Operating Temperature** 0° to 50° C Storage temperature -20° to 70° C

Operating Humidity 10% to 90% Non-condensing Storage humidity 5% to 95% Non-condensing



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