

WiMAX USB Modem



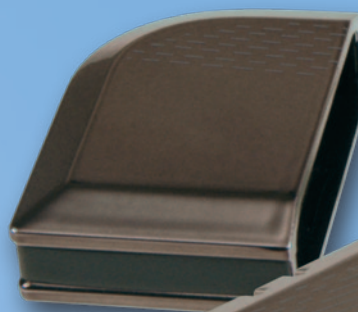
Teltonika UM6223, UM6225, UM6235 and UM6238 are compact USB modems offering high speed data rate connectivity to the WiMAX networks. They are compliant with IEEE802.16e-2005 WiMAX Wave 2 standard, support mobile wireless connectivity and are ideally suited for laptops and netbooks or can be used with stationary desktop PC. Modem incorporates separate embedded CPU for running connection management applications so only drivers are needed on host PC. Modem implements dual independent transmit chain with advanced 2Tx closed-loop diversity (2T-CLD) algorithm, for 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
- USB 2.0 Interface
- Embedded Web Server
- Operates within 2.3 – 2.4 GHz, 2.5 – 2.7 GHz, 3.3 – 3.6 GHz or 3.3 – 3.8 GHz range
- Compact Size
- Self Install, no CD Required
- 2 Tx with Closed Loop Diversity
- HARQ UL and DL, up to Category 7
- 40 Mbps throughput (combined downlink and uplink)
- MIMO Matrix A and B for Improved Transmission Speed and Coverage
- LEDs for Link Status and Link Activity
- Compatible with Windows XP/Vista/7, Linux, MAC OS X





Specifications:

Standard Compliant
Air Interface
Frequency Band

Channel Bandwidth
Modulation Adaptive
MIMO
Beamforming
RF Output Power
RX Sensitivity:

Antenna Gain
Antenna Type
Handover
QoS Mechanism
Authentication
Encryption
Error Handling
Throughput

OS Support
Installation
LEDs
Software

IEEE 802.16e-2005
S-OFDMA
2.3 – 2.4 GHz (UM6223), 2.5 – 2.7 GHz (UM6225)
3.3 – 3.6 GHz (UM6235) or 3.3 – 3.8 GHz (UM6238)
3 MHz, 3.5 MHz, 5 MHz, 6 MHz, 7 MHz, 8.75 MHz and 10 MHz
QPSK, 16QAM, 64QAM
MRC, Matrix A + MRC, Matrix B
All I/O Beamforming Items
2x25 dBm @ 2.3 – 2.7 GHz or 2x23 dBm @ 3.3 – 3.6 GHz
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
>2.5 dBi @ 2.6 GHz, >1.2 dBi @ 3.55 GHz
Internal Omni-Directional
Hard / Optimized Handover
UGS, Real-Time-VR, Non Real-Time-VR, Best Effort, ERT-VR
EAP-TLS, EAP-TTLS-MSCHAPv2
3 CCM-Mode 128-bit AES
HARQ UL and DL, up to Category 7
HARQ UL and DL, up to Category 7
40 Mbps Total DL + UL
Windows XP/Vista/7, Linux, MAC OS X
CD-free, Self Install
Link Status and Link Activity
Hostless Operation

Electrical, Mechanical & Environmental:

Dimensions (H x W x D)
Weight
Power Supply
Power Consumption
Operating Temperature
Storage temperature
Operating Humidity
Storage humidity

93mm x 27mm x 10mm
22g
USB
< 2.5W
0° to 50° C
-20° to 70° C
10% to 90% Non-condensing
5% to 95% Non-condensing