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/7/8/8.1, Linux, MAC OS X up to 10.9.1
Specifications:

- **Standard Compliant**: IEEE 802.16e-2005
- **Air Interface**: S-OFDMA
- **Frequency Band**:
  - 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)
- **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
- **Beamforming**: All I/O Beamforming Items
- **RF Output Power**:
  - 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
- **RX Sensitivity**:
  - QPSK1/2: -99 @ 2.5 GHz and 10 MHz BW
  - 16QAM1/2: -93.8 @ 3.5 GHz and 10 MHz BW
- **Antenna Gain**: >2.5 dBi @ 2.6 GHz, >1.2 dBi @ 3.55 GHz
- **Antenna Type**: Internal Omni-Directional
- **Handover**: Hard / Optimized Handover
- **QoS Mechanism**: UGS, Real-Time-VR, Non Real-Time-VR, Best Effort, ERT-VR
- **Authentication**: EAP-TLS, EAP-TTLS-MSCHAPv2
- **Encryption**: 3 CCM-Mode 128-bit AES
- **Error Handling**: HARQ UL and DL, up to Category 7
- **Throughput**: 40 Mbps Total DL + UL
- **OS Support**: Windows XP/Vista/7/8/8.1, Linux, MAC OS X up to 10.9.1
- **Installation**: CD-free, Self Install
- **LEDs**: Link Status and Link Activity
- **Software**: Hostess Operation

Electrical, Mechanical & Environmental:

- **Dimensions (H x W x D)**: 93mm x 27mm x 10mm
- **Weight**: 22g
- **Power Supply**: USB
- **Power Consumption**: < 2.5W
- **Operating Temperature**: 0º to 50º C
- **Storage temperature**: -20º to 70º C
- **Operating Humidity**: 10% to 90% Non-condensing
- **Storage humidity**: 5% to 95% Non-condensing

Teltonika reserves a right to modify the functionality of the device without any prior notice.