

# MU-1000MD

## TETRA Mobil Modem



### Modem Features

- High Transmit Power
- Internal and External Installation
- PEI interface with AT Command, Circuit mode, Packet data and TNP1 (TETRA Network Protocol)
- Air Interface Encryption
- GPS based location services

### Data Features

- ✓ Status messaging
- ✓ SDS TL 140 Byte/frame
- ✓ Circuit Mode Data
  - 7.2 Kbps net rate (TCH/7.2)
  - 4.8 Kbps net rate (TCH/4.8)
- ✓ PPP Connected Packet Data mode
- ✓ Full WAP support (Optional)
- ✓ Auto Power On at AT-Command Mode
- ✓ PEI interface with AT-commands, TNP1, Packet data and Circuit mode data
- ✓ GPS location report on demand

### Security Features

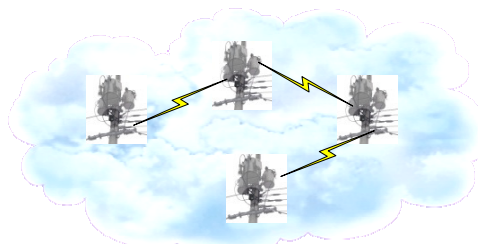
- ✓ Air interface encryption Algorithm TEA1 and TEA3
- ✓ Air interface encryption Class 1, 3
- ✓ Authentication (SwMI Initiated/Mutual)
- ✓ Over the Air re-keying (OTAR)
- ✓ Permanent or temporary terminal enabling/disabling
- ✓ Optional End-to-End encryption

### Other Features

- ✓ Available for Standalone or Built-in Type
- ✓ No Battery, External DC Power
- ✓ GPS location update
  - On request
  - Pre-defined Time and Distance
  - Power On/Off
  - Full compatible NMEA data Output (Optional)

### User interface Features

- ✓ PC Program for Configuration
  - With USB to PEI data cable
  - 115200bps RS-232 Interface
  - LED Display for registration status
- ✓ Additional AT Command support over PEI
  - CMCC return Country Code
  - CMNC return Mobile network code
  - CCHN return Control Channel Number
  - CLAI return Located Area Info.
  - CNLA return neighborhood LAs
  - GMI return Manufacturer Info.
  - GMM return Model
  - GMR return revision



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## TETRA Mobil Modem



The Radio specifications are extensively referenced Radio Conformance testing to EN 300 394-1

### Technical Data

- 400 & 800MHz - Five band variants
- Compact and light design
- Up to 3W transmit power
- Compatible with all TETRA networks

### General Specifications

Dimensions H x W x D (mm)	150.8 x 68.8 x 22.5 Aluminum & Metal Body
Weight (g)	230 (without antenna)
Power Supply	7.6V 3A max.

### Environmental

Operating Temperature	-20 °C to +55 °C
Drop and Vibration	ETS 300 019

### RF Specifications

Frequency Bands (MHz)	350 – 380 370 – 400 400 – 430 450 – 470 806 – 870
RF channel bandwidth	25KHz
Transmitted RF Power	Class 4 (1 Watt) for 800MHz band Class 3 (3 Watts) for 400MHz band Power control in 4 steps of 5dB
Receiver Class	Class A
Receiver Static Sensitivity	-112dBm
Receiver Dynamic Sensitivity	-103dBm

### GPS receiver (optional)

•GPS Antenna	External Antenna
•Sensitivity	-187dBw(-157dBm)

### Accessories

• 4P connector LED Indicator	•PEI Interface cable
•2P Power connector	•GPS Antenna
•TETRA RF Antenna	

The information contained in this document may be subject to change without further notice  
 • All product features are subject to infrastructure support  
 • Optional software upgrade is needed for some features



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