



# TWM1000

Advanced 3G Modem  
for Smart Metering Applications

 COMMUNICATIONS SERIES

## PRODUCT INFORMATION

Utilising the latest 3G chipset from Telit, the TWM1000 is a robust HSDPA modem specially developed for smart metering market. The TWM1000 is designed for highly reliable machine-to-machine communications, with very low standby power consumption.



## KEY FEATURES

**AMI**

AMI READY



PROVEN  
RELIABILITY



FLEXIBILITY



HIGH  
PERFORMANCE



LOW POWER  
CONSUMPTION



## Advanced 3G Modem for Smart Metering Applications

### SPECIFICATIONS

#### Benefits

- Supported bands
  - 4 Bands GSM/GPRS/EDGE:  
850/900/1800/1900 MHz
  - 3 Bands UMTS/HSPA:  
850/900/2100 MHz
- Quad Band GPRS and EDGE Class 33
- Extended temperature range
- 3GPP release 7 compliant
- Control via AT commands according to 3GPP TS27.005, 27.007 and customized Telit AT commands
- SIM application Tool Kits 3GPP TS 51.014
- Built-in UDP/TCP/FTP/SMTP stack

#### Data

- HSPA: 5.76 Mbps UL / 7.2 Mbps DL
- UMTS: 384 kbps UL / DL
- EDGE: 236.8 kbps UL / 296 kbps DL
- GPRS: 85.6 kbps UL / 107 kbps DL
- CSD

#### Interface

- Micro-Fit 8-pin Data Cable Connector
- Mini SIM (2FF) - 3V/1.8V
- FME Male Antenna Connector
- Flash LED Indicator

#### Modem module

- Telit - HE910

#### Development Environment

- Embedded Python script interpreter
- Memories
  - 2MB non-volatile memory for user scripts
  - 2MB RAM for Python engine usage

#### Electrical

- Input voltage: 6V to 20V
- Power consumption (max.): 2.7W
- RF power (max.)
  - Class 4 GSM 850/900 MHz (2W)
  - Class 1 GSM 1800/1900 MHz (1W)
  - Class 3 UMTS 850/900/2100 (0.25W)
  - Class E2 EDGE 850/900 MHz (0.5W)
  - Class E2 EDGE 1800/1900 MHz (0.4W)

#### Environmental

- Operating Range: -30°C to +70°C
- Storage Range: -40°C to +85°C

#### Physical Dimensions

- 80mm (L) x 50mm (W) x 23mm (H)
- Weight: Approx. 100g

#### LED Indicator & SIM Card Socket



#### Full compliance with:

