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# Model ETM9800

## GSM/GPRS/EDGE/UMTS/HSDPA Terminal



With HSDPA 3.6 Mbit/s download speed, Tri-Band UMTS/HSDPA, Quad-Band GSM/GPRS/EDGE in a compact package complete with RJ12 power connection plus USB and serial interfaces the ETM9800 is the ideal solution for anyone seeking a future-proof communications device.

HSDPA (High Speed Downlink Packet Access) technology is a transmission standard based on the UMTS technology, which currently allows a download speed of up to 3.6 Mbit/s. This technology packaged in a robust compact enclosure allows users to quickly access the latest 3G networks to offer services like broadband internet, e-mail access, and high-speed download of large files or streaming of video and/or audio content.

In addition the ETM9800 provides backwards compatibility with the existing GSM/GPRS networks across the globe.

### **Typical Applications Include;**

- ❑ Security, particularly remote access to video
- ❑ Replacement of legacy CDMA units
- ❑ Automated Meter Metering
- ❑ Interface to data acquisition/data logging systems
- ❑ Broadcasting/updating of multi-media files to remote devices
- ❑ Alarm and control applications using SMS/GPRS/EDGE/HSDPA

## Technical Specifications

### General Specifications

HSDPA 3.6 Mbps  
Tri-Band UMTS/HSDPA (WCDMA/FDD)  
850/1900/2100 MHz  
Quad-Band GSM 850/900/1800/1900 MHz  
EDGE (E-GPRS) multi-slot class 10  
GPRS multi-slot class 10  
UMTS/HSDPA 3GPP release 5  
GSM 3GPP release 99  
Output power:  
- Class 4 (2 W) for GSM900  
- Class 3 (0.25 W) for UMTS/HSDPA  
- Class E2 (0.5 W) for EDGE900  
- Class E2 (0.4 W) for EDGE1800  
- Class 1 (1 W) for GSM1800  
Control via AT commands  
(Hayes 3GPP TS 27.007 and 27.005)  
SIM Application Toolkit (release 99)  
Supply voltage range: +4.5 to +40V  
Power consumption:  
  
- Refer technical manual for power consumption at different operating conditions.  
  
Operating Temperature: -20°C to +50°C  
Dimensions: 105 x 56 x 25 mm  
Weight: approx. 110g

### Specification for HSDPA data transmission:

HSDPA: max. 3.6 Mbps (DL), max. 384 kbps (UL)  
UE CAT [1-6], 11, 12 supported  
Compressed mode according to 3GPP TS25.212

### Specification for UMTS data transmission:

UMTS: max. 384 kbps (DL), max. 384 kbps (UL)

### Specification for EDGE data transmission:

EDGE class 10: max. 237 kbps (DL),  
max. 118 kbps (UL)  
Mobile station class B  
Modulation and coding scheme MCS 1-9

### Specification for GPRS data transmission:

GPRS class 10: max. 85.6 kbps (DL),  
max. 42.8 kbps (UL)  
Mobile station class B  
Full PBCCH support  
Coding schemes CS 1-4

### Specification for CSD data transmission:

GSM data rate 14.4 kbps, V.110  
UMTS data rate 57.6 kbps, V.120  
RLP (Non-transparent mode)

### Specification for SMS:

Point-to-point MO and MT  
SMS cell broadcast  
Text and PDU mode

### Specification for fax:

Group 3, class 1

### Windows® XP

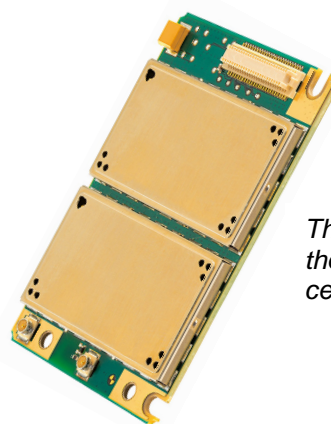
RIL/NDIS/USB driver for devices based on  
Microsoft® Windows Mobile™5.0 and its  
successor  
Customer IMEI as variant  
Firmware update via USB

### Interfaces

Communications: 1 x Serial, 1 x USB  
Antenna Connector: FME (male)  
Power Supply: RJ12

## Typical Accessories Include;

- ❑ Antenna (numerous options)
- ❑ 110-240V power adaptor
- ❑ Power input cables RJ12/flying lead
- ❑ RS232 serial cables
- ❑ USB Cables



*The ETM9800 utilises the Siemens HC25 cellular engine*