

Model ETM9560-1

GSM/GPRS Terminal



The ETM9560-1 is a GSM/GPRS (GPRS Class 10) terminal with a programmable microcontroller, which can be used for alarm and or control applications. The terminal includes MCU, EEPROM, GSM/GPRS engine, serial communication port and 7 programmable I/O plus 1 pulse counter. Alerts/alarms can be sent via SMS and/or GPRS (UDP or TCP). The ETM9560-1 is RoHS compliant.

Typical Applications Include;

- ❑ Security, remote access and/or alarm relay
- ❑ Automated Meter Metering
- ❑ Interface to data acquisition/data logging systems
- ❑ Environmental monitoring of digital or analogue input status
- ❑ Alarm and control applications using SMS/GPRS

ETM9560-1 Features Include;

- ❑ Dual-Band GSM/GPRS Connectivity
- ❑ TCP/IP Stack
- ❑ Standard RS232 9DBF serial port
- ❑ 6 V to 36 V power input on RJ12 connector
- ❑ 7 x configurable I/O's on RJ45 connector
- ❑ 1 x pulse counter
- ❑ FME M antenna connector
- ❑ Sleep Mode for reduced power consumption
- ❑ User configurable via ETM9560-1 configuration tool
- ❑ -20°C to +55°C operating temperature range
- ❑ Short Messages (SMS)
- ❑ Circuit Switch Data (CSD)

General Features

- ❑ Siemens MC39i Module Inside
- ❑ Dual-Band GSM/GPRS 900/1800 MHz
- ❑ GPRS multi-slot class 10
- ❑ Compliant to GSM phase 2/2+
- ❑ Output Power:
 - ❑ Class 4 (2W) for EGSM900
 - ❑ Class 1 (1W) for GSM1800
- ❑ Control via AT commands
- ❑ SIM Application Toolkit (release 99)

Specification for GPRS

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

Specification for CSD

- ❑ GSM data rate 14.4 kbps, V.110
- ❑ Non-transparent mode
- ❑ USSD support

Specification for SMS

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

I/O's (on RJ45)

- ❑ 7 x I/O's configurable as digital, analogue or pulse
 - Analogue Input (I/O 3,4,5,6,7 only): 0-2.5VDC
 - Digital Input (I/O 1 to 7): LL<0.5V, HL>2.5V, Max Input ± 50 VDC
 - Pulse Input (I/O 1 only): LL<0.5V, HL>2.5V, Max Input ± 50 VDC
 - Digital Output (I/O 1 to 7): LL0V/0.1mA, HL3V,0.1mA

Configuration Tool

- ❑ Set active profile
- ❑ Variable RS232 serial port baud rate: 2400 bps to 115200 bps
- ❑ SIM PIN support
- ❑ Terminal Window

Power Requirements

- Supply Voltage range +6VDC to +35VDC
- Average Power Consumption 300mA at 12VDC

Mechanical Specifications

- Dimensions 105mm x 56mm x 25mm
- Weight: 100g

Operating Environment

- Operating Temp. Range: -20°C to +55°C

