>intelligent cellular 2G/3G terminals for remote monitoring, measuring and control<

ETM9120/9140

- Low power mode for battery operation
- Pulse counting for metering applications
- 2G/3G world wide wireless coverage*
- ON/OFF control using SMS or IP
- Data logging of analogue sensors
- Alarm sending over SMS or IP
- Act as a communication link via RS232
- Easy access to logged measurements via optional remote WEB interface

ETM9120/9140 are intelligent terminals designed for demanding industrial applications requiring status monitoring functionality or IOs for alarm, control or data logging projects. Typical applications include: electrical or water metering, pump monitoring and control, temperature alarm/data logging for cold or computer rooms, tank level monitoring and general SMS alarm dialer requirements.

etm
>connecting things<

ETM9120/9140

- TCP/IP stack
- RS 232 serial port
- 5-35 V power input
- 7 IO's**
- Switched sensor power supply option**
- <150uA in sleep
- 5-band UMTS and 4-band GSM/GPRS *
- Watchdog
- SMS Alarm from digital or analogue inputs with 5 ph numbers

The ETM9100 series terminals are industrial grade intelligent modems designed for demanding surveillance and general communications applications. The units low power consumption and wide operating range make it very suitable for solar or battery operated installations in remote areas.

Model:	ETM9120	ETM9140
Module:	Cinterion TC63i	Cinterion PH8-P
GSM:	2G	2G and 3G
Frequency:	GSM: 850/900/1800/1900 MHz	UMTS: 800/850/900/1900/2100MHz
		GSM/GPRS: 850/900/1800/1900 MHz
Data transmission:		
- HSDPA	No	DL: max 14.4 Mbit/s UL: max 5.76 Mbit/s
- UMTS	No	DL: max 7.2 Mbit/s UL: max 2.0 Mbit/s
- EDGE	No	Class 12
- GPRS	Class 12	Class 12
- CSD	Yes	Yes
- SMS	Yes	Yes
- Fax	Yes	No
- TCP/IP	Yes	Yes
Dimensions:	105x56x25 mm	
Weight:	110 g	
Power supply:	+ 5 VDC to + 35 VDC	
Power consumption:	600 mA (rated), <250mA (transmitting), <35mA (idle), <0.15mA (sleep)	
Operating temp:	-30°C to +70°C	
Antenna:	FME M	
Interfaces:	RS232 serial connector (9DF), I/O Connector (RJ45), Power connector (RJ12)	
Inputs/outputs:		
- Digital inputs:	I/O 1 to 7**: LL<0.5 V, HL>2.5 V, Max Input ±50 VDC	
- Digital outputs:	I/O 1 to 7**: LL 0 V, 0.1 mA; HL 3 V, 0.1 mA	
- Pulse inputs:	I/O 1, 2 & 3	
- Analogue inputs:	I/O 3,4,5,6,7**: 0-2.5 VDC	
- Power output:	I/O 7 Stabilised 5 V or battery voltage output (for sensor feeding)**	
SMS Alarm:	Yes - all 7 inputs plus power input monitoring, 5 ph numbers in phonebook	
Logging capacity:	3000/logging channels, minimum 1 minute log interval	
Log types:	Analogue 0-2500 mV (scalable), Pulse (counter), Pulse (frequency)	
Sleep mode:	Programmable with internal or external wake up activation.	
Accessories:	Many types of antennas, leads and cables, power supply and sensors.	

** Only valid for ETM9140, **Contact ETM for IO configuration capabilities of specific part numbers*

Your chosen wireless carrier or infrastructure may not offer support for all described functionality - please contact us for technical qualification.

ETM Mätteknik AB

Box 11096, Ekbacksvägen 32,

SE-161 11 Bromma, Sweden

Tel: +46 (8) 25 28 75 E-mail: sales@etm.se, www.etm.se

ETM Pacific Pty Ltd

Suite 6, 273 Alfred Street, North Sydney NSW 2060, Australia

Tel: +61 (0)2 9956 7377 E-mail: info@etmpacific.com.au, www.etmpacific.com.au

etm ›connecting things‹