

>intelligent cellular 4G/3G terminal for
SMS alarm, remote monitoring, & control<



ETM9140 3G/4G AUS

The ETM9140 3G/4G AUS is an intelligent terminal designed for SMS alarm, data logging, monitoring and control. The unit includes 7 IO's and a 4G/3G cellular engine. Typical applications include: SMS alarm, pump ON/OFF control, water metering, rainfall monitoring, temperature alarm/data logging, tank level monitoring, mains power failure and server room alarms.

- › Alarm sending over SMS or IP
- › SMS phone book, 5 numbers
- › ON/OFF control using SMS or IP
- › 700MHz Band 28 / 4GX compatible
- › Fallback to 3G
- › Pulse counting for metering applications
- › Data logging of analogue or pulse inputs
- › Low power mode for battery operation
- › Easy access to logged measurements via optional remote WEB interface

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- › SMS Alarm from digital or analogue inputs
- › SMS phone book, 5 numbers
- › 700MHz Band 28, 4GX compatible
- › Fallback to 3G
- › Output control, eg turn a pump ON/OFF
- › 5-35 V power input
- › 7 IO's*
- › Switched sensor power supply option**
- › Low power, <150uA in sleep mode

The ETM9140 3G/4G AUS terminals are industrial grade intelligent modems designed for demanding SMS or IP based monitoring applications. The ETM9140 3G/4G AUS's low power consumption and wide operating range make it suitable for solar or battery operated installations in remote areas.

Model:	ETM9140 3G/4G AUS
Module:	Cinterion ELS61-AUS
Connectivity:	4G and 3G
Frequency:	Quad-Band LTE: Bands 3, 5, 8, 28 (1800, 850, 900, 700 MHz) Tri-Band UMTS: Bands 1, 5, 8 (WCDMA/FDD 2100, 850, 900 MHz)
Data transmission:	
- 4G/LTE	LTE Cat.1 DL: max. 10.2 Mbps, UL: max. 5.2 Mbps
- UMTS	HSPA+ Cat.8 data rates DL: max. 7.2 Mbps, UL: max. 5.76 Mbps
- CSD	Yes (only on 3G, 4G/LTE Networks do not support CSD)
- SMS	Yes
- TCP/IP	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
Antennas:	2 x FME M antenna leads
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, Can accept 0-10V or 4-20mA inputs with IO Board**
- Power output:	I/O 7 can be used for sensor power when combined with optional IO board**
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.

* Contact ETM for detailed IO configuration capabilities, **Requires optional IO Board

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

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