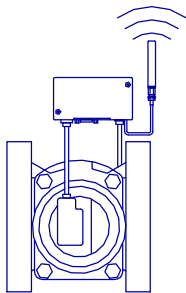


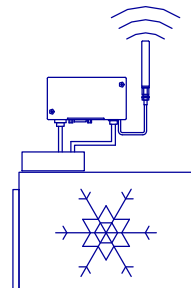
ETM9570-1 & ETM9910-1

Range of Intelligent Cellular Terminals



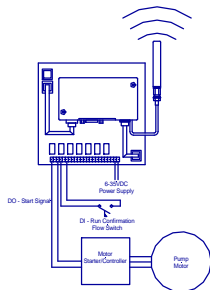
Pulse Counting

Store & forward (over GPRS/UMTS) pulse count data from water or electricity meters or other pulse output devices



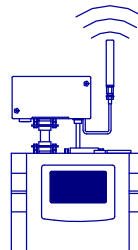
SMS Alarm

Cold Room, Computer Room and Refrigeration Plant alarm &/or control using digital or analogue inputs



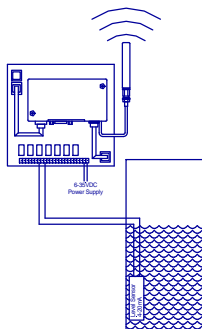
ON/OFF Control

Turn pumps, lighting systems or other equipment ON/OFF using SMS and/or IP



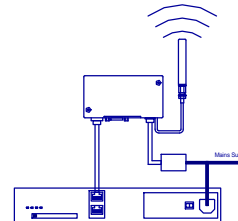
Communications Link

Link via RS232 port to electrical or other utility meters, data loggers or PLCs



Data Logging

Monitor tank levels, temperatures, PH, conductivity or other parameters and automatically collate data on a server



Mains Power Alarm

Monitor continuity of mains supply to Routers, Servers or other critical equipment

Product	ETM9570-1	ETM9570-1B1	ETM9570-1B2	ETM9910-1	ETM9910-1B1	ETM9910-1B2
Cinterion Module Inside	TC63i			EU3-P		
Frequency Range	2G Quad-Band GSM/GPRS 850/900/1800/1900MHz			3G Tri-Band UMTS 850/900/2100MHz Dual-Band GSM/GPRS 900/1800MHz		
Dimensions - mm	105 x 56 x 25			105 x 56 x 25		
Weight - g	100	110	120	100	110	120
Power Supply	+6VDC to +35VDC			+6VDC to +35VDC		
Power Consumption						
Nameplate Power Consumption	600mA	600mA	600mA	600mA	600mA	600mA
Typ. Power Consumption 12 VDC - Transmitting	<200mA	<200mA	<200mA	<250mA	<250mA	<250mA
Typ. Power Consumption 12 VDC - Idle	<30mA	<30mA	<30mA	<35mA	<35mA	<35mA
Typ. Power Consumption 12 VDC - Sleep Mode	0.7mA	0.7mA	0.7mA	0.7mA	0.7mA	0.7mA
Typ. Power Consumption 12 VDC - Charging	N/A	300mA	TBC	N.A	300mA	TBC
Operating Temperature Range	-20°C to +60°C	-10°C to +55°C (Discharge) 0°C to +40°C (Charge)		-20°C to +60°C	-10°C to +55°C (Discharge) 0°C to +40°C (Charge)	
Data Transmission						
- HSDPA	x			DL: max 3.6 Mbit/s UL: max 384kbps		
- UMTS	x			DL: max 384kbps UL: max 384kbps		
- EDGE	x			Class 10		
- GPRS	Class 12			Class 10		
- CSD	✓			✓		
- SMS	✓			✓		
- Fax	✓			x		
- TCP/IP	✓			✓		
Interfaces						
- RS232 Serial	9DF			9DF		
- Power Connector	RJ12			RJ12		
- Antenna Connector	SMA Female			SMA Female		
- I/O Connector	RJ45			RJ45		
Internal Battery	N/A	400mAhr 3-10hours - suitable for Back up in event of power failure	1000mAhr Suitable for Solar Powered Applications using Sleep Mode Function	N/A	400mAhr 3-10hours - suitable for Back up in event of power failure	1000mAhr Suitable for Solar Powered Applications using Sleep Mode Function
I/O's						
- Configurable Digital Inputs	I/O 1 thru 7: LL<0.5V, HL>2.0V, Max Input ±50VDC			I/O 1 thru 7: LL<0.5V, HL>2.0V, Max Input ±50VDC		
- Configurable Digital Outputs	I/O's 1 thru 7: LL0V, HL3V,0.1mA			I/O's 1 thru 7: LL0V, HL3V,0.1mA		
- Pulse Inputs (for logging) ¹	I/O's 1, 2 & 3			I/O's 1, 8 & 9		
- Configurable Analogue Inputs	I/O's 3,4,5,6,7: 0-2.5VDC			I/O's 3,4,5,6,7: 0-2.5VDC		
Logging Capability						
- Approx Logging Capacity	3000/n (where n is the number of inputs logged)			3000/n (where n is the number of inputs logged)		
- Minimum Log Interval	1 minute			1 minute		
- Available Log Types	Analogue 0-2500mV (scalable) Pulse (Count) Pulse (Frequency)			Analogue 0-2500mV (scalable) Pulse (Count) Pulse (Frequency)		
Programmable Sleep Mode Available	✓			✓		
Wake up PIN for Sleep Mode	Pin 4 On RJ12 Power Input			Pin 4 On RJ12 Power Input		

Notes:

1. Pulse inputs on I/O Pins 2 & 3 appear in the log file as I/O's 8 & 9.

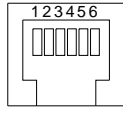
Features:

- SMS or IP alarms from digital or analogue inputs
- Data logging 5 x analogue inputs 2 x pulse (3 if mains powered) inputs
- Low power consumption in sleep mode
- AT mode for connection via RS232 port to third party devices such as data loggers, electricity meters, PLCs, PC or servers
- Wide input power range, 6 to 36VDC
- Backup battery versions to ensure alarms go out upon power failure or to allow logging (in sleep mode) on solar applications through periods of low solar energy availability
- TCP/IP stack
- Short Messages (SMS)
- Circuit Switch Data (CSD)
- Standard RS232 9DBF serial port
- FME M antenna connector

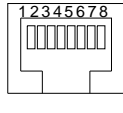

ESIS
 Industrial Electronics

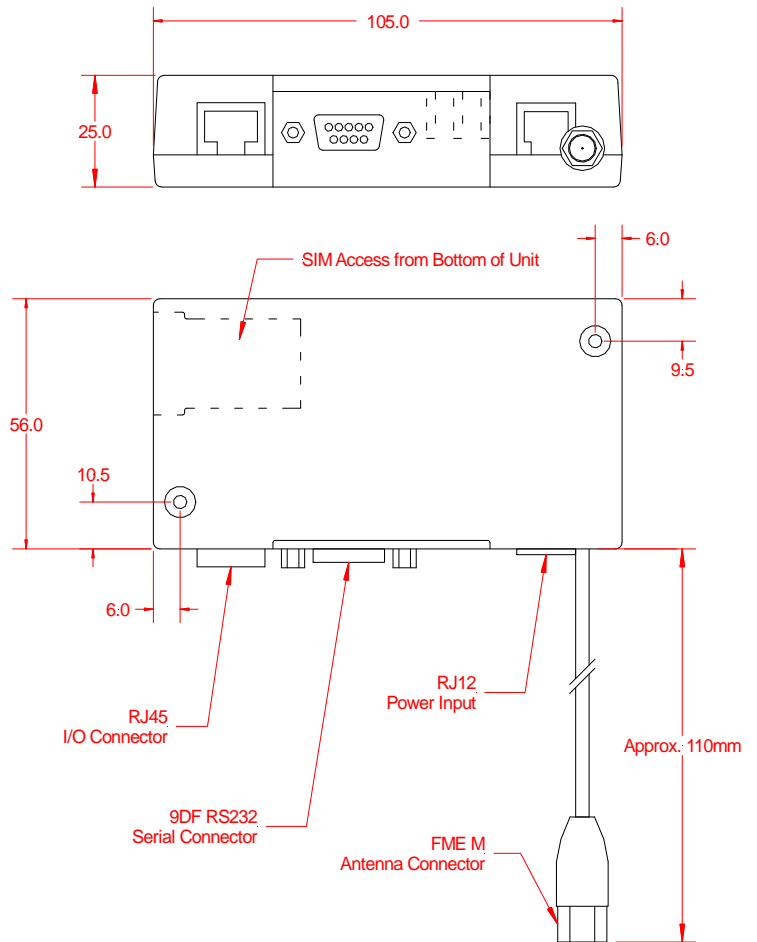
www.esis.com.au
 Ph 02 9481 7420
 Fax 02 9481 7267
 esis.enq@esis.com.au

RJ12 Connector - Power Supply

PIN	Function	Looking at Modem Socket
1	Power Supply (+6 to +35VDC)	
2	Not Used	
3	Flash Download	
4	DTR (can be used as wake-up pin)	
5	Not Used	
6	GND	

RJ45 Connector - I/O

PIN	Function	Looking at Modem Socket
1	Digital I/O / Pulse Counting	
2	Digital I/O / Pulse Counting (I/O8)	
3	Digital I/O / Pulse Counting (I/O9) / Analogue Input	
4	Digital I/O / Analogue Input	
5	Digital I/O / Analogue Input	
6	Digital I/O / Analogue Input	
7	Digital I/O / Analogue Input	
8	GND	



Accessories



Antenna Options Include;

- 3db Magnetic Base
- 3db Panel Mount
- 6db Panel Mount
- Glass Mount and patch type



Power Pack
240VAC/12VDC for use
with all ETM Terminals



Leads and Cables

- RS232
- RJ45 for I/O
- RJ12 for Power Input



I/O Board
For easy connection of
4-20mA or 0-10V
sensors and with outputs
rated at 2A 30VDC

Available from:



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Ph 02 9481 7420

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