ZEST-N-UMTS
Low Cost 3G Modem with RS232 and USB Serial Port Interfaces

Key Features

- RS232 serial port interface (RS485 to order)
- USB serial port interface
- Dual band 900 / 1800MHz
- UMTS 900 / 2100MHz
- Supply voltage capability 6-26V
- AT command driven
- Wall or DIN rail mountable
- Compact size
- 105 grams weight

General Description

The ZEST is an entry level industrial cellular modem, with serial RS232 and USB ports, offering key functionality within a rugged plastic enclosure. The ZEST is ideal for M2M applications requiring a simple but reliable modem for 3G data connection, using either a standard RS232 or USB interface. The USB port is used for sending / receiving data, but in addition can be used for supplying power. The ZEST-N-UMTS is a dual band GPRS and 900 / 2100MHz 3G modem providing EU coverage, for the EMEA and APAC regions. Further configurations including global quad band GPRS are also available.

Despite its highly competitive price, the ZEST is built to the same exacting standards as the rest of the Siretta modem family. The ZEST will be a popular choice for many situations requiring just GPRS or 3G connectivity, and the flexible 6-26V power supply and a -40°C to +85°C operating temperature range allow the product to be used in most industrial applications.

The ZEST enclosure comes ready to be either wall mounted or DIN rail mounted, an unusual feature at this price point. This capable low cost modem offers full nine pin functionality at the RS232 port to cater for all application requirements. It will be at home in any of the following applications: automatic meter reading, remote vending machine management, LED signage, POS connectivity and many other situations requiring GPRS / 3G connectivity in a reliable compact package measuring just 75 x 84 x 31mm.

Electrical Specifications

Interfaces:	RS232 serial port USB serial port
Operating frequencies:	Dual band GSM: 900, 1800MHz 900, 2100MHz 3G
Temperature range:	-40 to +85°C
Power supply:	6 - 26V

Cellular Interface

Standards:	GSM / GPRS / EDGE / UMTS / HSDPA / HSPA+
GPRS:	Max 86kbps (DL & UL), lass 10
EDGE:	Max 236.8kbps (DL & UL), Class 12
UMTS:	Max 384kbps (DL & UL)
HSPA+:	Max 14.4 / 5.76Mbps (DL / UL)
HSDPA:	Max 3.6Mbps / 384kbps (DL / UL)
CSD:	Up to 9.6kbps
SIM:	1 x (3V & 1.8V)
Antenna interface:	SMA female

Serial Interface

Ports:	1 x DB9 female
Serial standards:	RS232
ESD protection:	± 15KV
Parameter:	1200bps to 115200bps
RS232:	DCD, RxD, TxD, DTR, GND, DSR, RTS, CTS, RI
RS485 (option):	Data+(A), Data-(B), GND

USB Interface

Ports:	1 x Mini B USB Female
Speed:	USB 2.0 high speed 480(Mbit/s)
ESD protection:	15kV

System

LED indicators:	RUN
Data link:	100 to 200mA (peak) @ 12V

Software Protocols

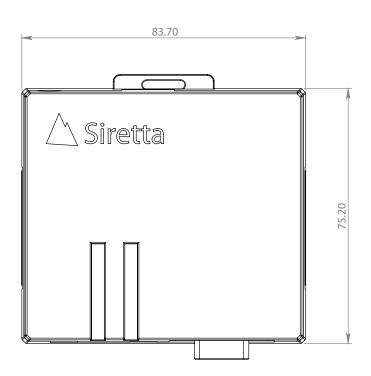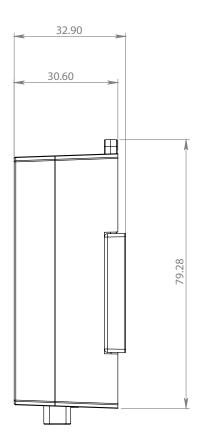|	
IP protocols:	PPP, TCP, UDP, ICMP, DDNS, Telnet
Serial port:	TCP Client / Server, UDP, Modbus RTU to Modbus TCP, Virtual COM (COM port redirector)

Mechanical Specifications

Dimensions:	75 x 84 x 31mm (see drawing below)
Weight:	105g
Antenna connector:	SMA Female (GSM)
Mounting method:	DIN Rail or Screw Mount

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