



Innov8tiveSMS Converter

Innovative SCADA Solutions Pty Ltd specialises in developing innovative wireless solutions for the SCADA and telemetry industry. Innov8tiveSMS Converter is an embedded application which converts serial data into SMSs and sending these SMSs to the appropriate sites. Traditionally, an external intelligent device communicates with the attached device(s) using one port and send / receive SMSs on another serial port. Now these functions are cleverly combined and integrated into the GSM modem, eliminating the need for the external intelligent device. The conversion from serial data to SMSs and vice versa are built into the Innov8tiveSMS Converter firmware application that resides inside the GSM modem.

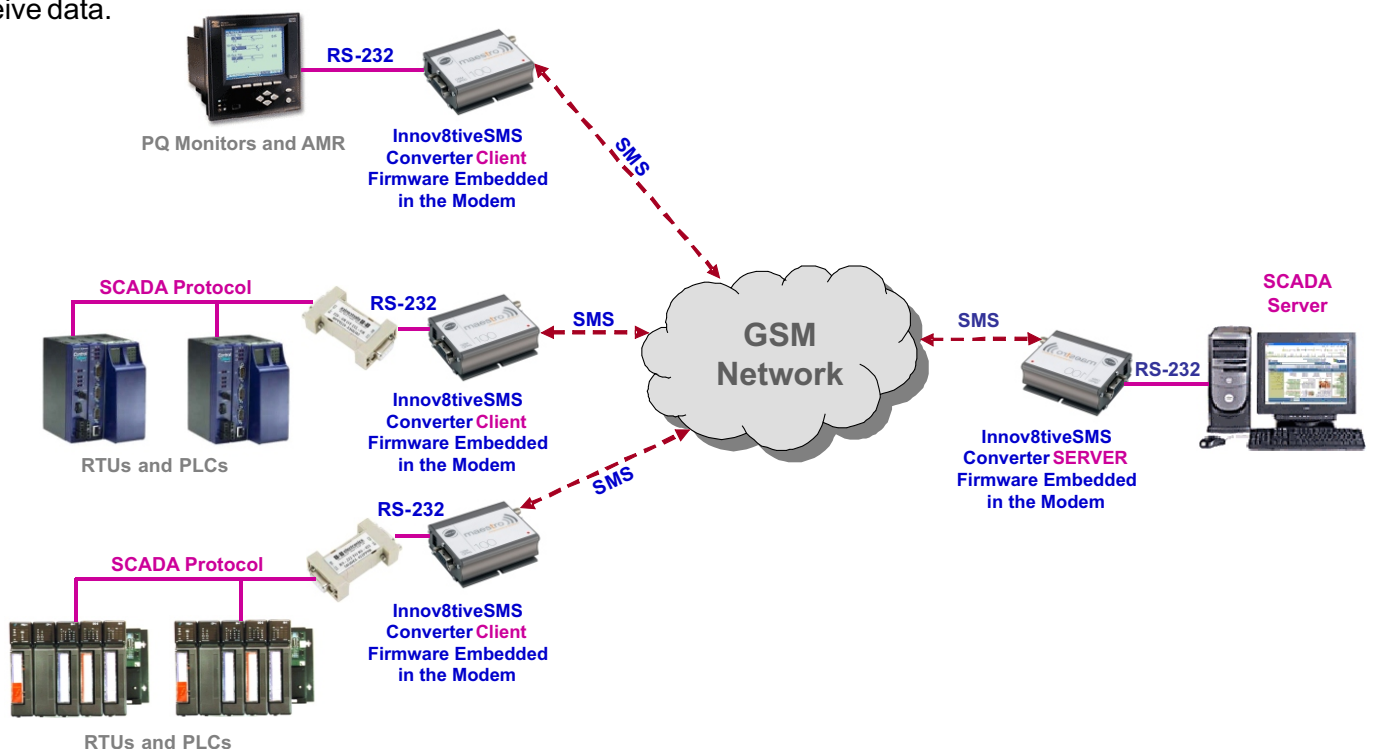
The Innov8tiveSMS Converter solution is similar to the Innov8tiveGPRS except that it uses SMS instead of GPRS to send and receive data.

Applications

- **Water Utilities** - fresh and waste water level alarms, pump control, flow measurements etc.
- **Electrical Utilities** - fault indicators, reclosers, transformer temperature alerts, feeder monitoring & control, power quality etc.
- **Metering** - water, electricity and gas
- **Rental or mobile equipment remote monitoring & control**
- **Building management, HVAC**
- **Street lights** - power consumption and control
- **Security** - movement detection and video transmission
- **Load profiling** for electrical & water parameters, sensor measurements such as pressure, temperature, humidity, flow rate etc.
- **Connect to HART Multiplexers** for remote communications with Asset Management Systems.

Features

- **Efficiently converts** serial data into SMSs and SMSs back into serial data.
- **The Innov8tiveSMS Converter server** have intelligent routing facilities to appropriately route the data packets to the remote sites.
- **Compatible** with numerous industry standard SCADA protocols such as Modbus, DNP 3.0, IEC etc.
- **Transparent** to the attached devices and SCADA master.
- **User-friendly Graphical User Interface (GUI)** for configuration, downloading and saving.
- **Easy to configure** - setup within minutes. The configuration parameters can be saved and downloaded into other GSM modems with the Innov8tiveSMS Converter application inside.
- **Ideal** for applications with low data traffic.





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Features

- Using SMSs is a low-cost, wireless SCADA communications option. People use SMSs in everyday life and now has been adapted for SCADA applications.
- Data are compressed to minimise the number of SMSs needed to be sent.
- Multiple SMSs are reconstituted at the receiving end to reproduce the raw original data packet.
- Use standard OpenAT programming platform.
- AES 128 Bit encryption used for the password.
- Developed in Australia for world wide usage.

Advantages and Benefits

- The GSM modems are shipped with the Innov8tiveSMS Converter application inside. Only configuration specific to your devices are needed.
- Compatible with most GSM networks worldwide. Use quad band modems.
- Cost-effective. The Innov8tiveSMS Converter firmware application is inside the GSM modem. No external intelligent devices are needed.
- Compatibility. Make the most of all your field devices as they can now communicate back to the SCADA master using SMSs.
- Use inexpensive SMS to send protocol data.
- Users can purchase the specified GSM modems locally and the Innov8tiveSMS Converter firmware can be sent via email that can be downloaded into the GSM modems in your office.

General Features

- Quad band GSM - 850 / 900 / 1800 / 1900 Mhz
- GPRS class 10 / EDGE class 10
- ETSI GSM Phase 2+ compliant
- Din Rail Mountable
- Built-in watchdog to prevent modem lock-up
- Control via AT commands (GSM 07.05, GSM 07.07 and Wavecom)
- Temperature range:
 - Operational: -20°C to +55°C
 - Functional: 40°C to +85°C
 - Storage: -40°C to +85°C
- Casing: Metal / Plastic
- Dimensions: 90 x 72 x 33mm
- Weight: 100g

Electrical Characteristics

- Supply voltage range: 5-32V DC

Power Consumption:

- GSM 850/900 (PLC 5): 310mA@5V, 50mA@32V
- DCS 1800/PCS 1900 (PLC 0): 240mA@5V, 40mA@32V
- GPRS 850/900 CL10 (PCL 5): 520mA@5V, 80mA@32V
- GPRS 1800/1900 CL10 (PCL 0): 390mA@5V, 70mA@32V
- Idle consumption: 80mA@5V, 18mA@32V

Output Power:

- 2W for GSM850/900 GPRS850/900
- 1W for GSM1800/1900 GPRS1800/1900
- 0.5W for EGPRS 850/900
- 0.4W for EGPRS 1800/1900

GPRS / EGPRS

- GPRS Multislot class 10 / EGPRS Multislot class 10
- Mobile station class B
- PBCH support
- GPRS Coding schemes CS1-CS4

SMS

- Point-to-point MO/MT
- Text and PDU

Interfaces

- Antenna: SMA female connector
- RS232 on 9 pin female Sub-D connector
- DC(4 pin) power supply connector
- SIM card: 1.8V / 3V

Software Support

- Processor: Wavecom Wireless CPU
- Memory: 256KB SRAM & 1.5MB Flash
- OS : Wavecom OPEN AT

Pre-installed Features

- AUTOTCP
- AT Command over SMS
- Modem status check and monitoring
- Command line Interface to program sequence of actions driven by events
- Download Over The Air (DOTA) for application software upgrade
- Download Over The Air (DOTA) for firmware upgrade (available at a later stage)

Ordering Information

- M100-SMSC-S - Innov8tiveSMS Converter server firmware.
- M100-SMSC-C - Innov8tiveSMS Converter client firmware.

Authorised Dealer

