

erco & gener

L'esprit modem >>



Entirely dedicated to the wireless markets throughout the world, the GenPro 20e allows a simple and rapid integration of GSM / GPRS Quad-Band (850/900/1800/1900 MHz) connectivity into M2M applications.

## GenPro 20e

- GSM / GPRS COMMUNICATION
- RS232

The GenPro 20e is a robust, reliable and long life product. Its very compact metal case makes it ideally adapted to onboard standards. This product also conforms to the automotive standards ("E" label).

Optional flash memory extension and integrated shock detector associated with development tools, offer the possibility for the personalisation of supplementary applications.

The GenPro 20e modem is equipped with TCP/IP protocols allowing the immediate development of onboard high value-added telematic solutions.

# TECHNICAL CHARACTERISTICS

## GenPro 20e

### GSM / GPRS FEATURES

- E-GSM Quad-band 850/900/1800/1900 MHz
- ETSI GSM Phase 2+
- Class 4 (2W @ 850 / 900 MHz)
- Class 1 (1W @ 1800 / 1900 MHz)
- SIM Toolkit Release 99

### VOICE FEATURES

- Voice (GSM mode)
- Telephone, Emergency number 112
- Full Rate, Enhanced Full Rate, Half Rate (FR/EFR/HF)
- Echo cancellation and noise reduction
- Full Duplex Hands Free

### DATA FEATURES

- GPRS Class 10 (Up to 4Rx / 2Tx)
- Supports PBCCH, coding schemes: CS1 to CS4
- TCP/IP (PPP RFC, TCP Socket, UDP Socket, SMTP, POP3, FTP) libraries
- Asynchronous data circuit, transparent and non-transparent up to 14400 bits/s
- SMS point to point MT/MO and SMS CB

### INTERFACES

- Antenna GSM: connector SMA-F
- Power supply: 5.5Vdc to 32Vdc (micro-FIT connector)
- RS232 + Audio via a female 15-pin Sub-D
- AT Commands: GSM 07.05 and 07.07
- SIM card reader (SIM 3V - 1,8V)
- Watchdog

### AVERAGE POWER CONSUMPTION

- GSM 850 / 900 MHz:  
105 mA @ 12 V in communication
- GSM 1800 / 1900 MHz:  
80 mA @ 12 V in communication
- Idle mode: 5 mA @ 12 V

### ENVIRONMENTAL & MECHANICAL

- Operating temperature: - 20°C to + 55°C
- Storage temperature: - 30°C to + 85°C
- IP31 aluminium case:  
Length 73 mm x Width 54 mm x Depth 25 mm
- Weight: 90 g

### APPROVALS

- R&TTE (Radio & Telecom. Terminal Equipment)
- Automotive approval: E24 10R-020250 ("E" label)

### OPTIONS

- Flash memory extension
- Shock detector
- Buzzer output
- GSM antenna (SMA-M)
- Serial Data cable - 15M/9F  
or Data/Audio cable -15M/9F/RJ9
- 230 Vac - 12 Vdc power supply
- GenBlue 10e:  
remote-supply Bluetooth® / RS232 adapter