

erco & gener

L'esprit modem >>



Entirely dedicated to the most critical and sensible industrial applications, the GenIP 20i with its aluminum DIN Rail casing, associates high speed wired connections (Ethernet) with the wireless world (GSM / GPRS).

Autonomous, simple to configure (intuitive multi-language web interface) and with a high performance (ARM9 - 400 MHz processor), it will help you all along your industrial phases concerning alarm and events management, network interconnection (Ethernet, Modbus), command interpreter, security (VPN SSL, VPN IPSec) and storage of critical information.

The GenIP 20i provides a GSM / GPRS communication interface and is always available to monitor your sensitive equipment. (notification by Email / SMS / GPRS / optional voice alarm [MP3 file]).

It is also able to adapt your ASCII protocols to your new Ethernet platforms (Modbus RTU to Modbus TCP conversion).

With a 5 years warranty, it has the same qualities as all our products: Robustness, Reliability and Long life.

GenIP 20i

- Ethernet - GSM/GPRS gateway
- DIN Rail aluminum casing
- RS232 / RS485 / USB Host / RJ45
- 2 Digital Inputs
- 2 Digital Outputs
- 2 Analog Inputs Voltage / Current
- 2 Analog Outputs Voltage / Current
- Embedded secured Web server
- Modbus RTU / TCP converter
- Linux IP stack, IP routing, VPN IPSec / SSL
- Alarm management, datalogger
- Modbus protocol
- Wide operating supply range: 9 to 54 Vdc
- 5 years warranty

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TECHNICAL CHARACTERISTICS

GenIP 20i

GSM / GPRS FEATURES

- E-GSM Quad-bands 850/900/1800/1900 MHz
- ETSI GSM Phase 2+
- Classe 4 (2W @ 850 / 900 MHz)
- Classe 1 (1W @ 1800 / 1900 MHz)
- GPRS Class 10 (4Rx / 2Tx)

FUNCTIONS

- Secured configuration interface (HTTP / HTTPS + Login / Password) via Ethernet / GSM / GPRS
- Multi-Language (FR / UK), On-line Help
- APACHE server / SSH server
- Import / export configuration and scripts
- Port Forwarding, VPN SSL, VPN IPsec
- Firewall with automatic management
- Alarm management :
 - Transmission: Email / SMS / GSM / GPRS + optional voice alarm (MP3 file)
 - upon analysis of frame: RS232 / RS485 / Ethernet
 - upon change of state of inputs, log file size ...
- Modbus TCP / Modbus RTU converter
- Bridge RS232 / RS485 between 2 GenIP 20i via Ethernet / GPRS
- Datalogger in Flash memory or USB key (not included)
- IP routing
- Linux IP stack: TCP / UDP / FTP/ SMTP/ POP 3
DHCP client and server,
HTTPS / HTTP
Client : DynDNS / SNTIP
- Macro Commands via Ethernet / SMS / GPRS
- Automatic, systematic GPRS connection or upon events
- Diagnostic and administration tools
- Scheduler for actions
- Macro Commands and Scripts builders
- Log events
- Modem simulator (AT commands + RS232 signals)
- Modbus protocol

INTERFACES

- ARM9 processor (400 MHz)
- RS232: Sub-D 9-F
- USB Host
- RJ45 Ethernet port (10 / 100 Mbps)
- SMA-F antenna connector
- Wide operating supply range: 9 to 54 Vdc
- SIM reader with lock (3V – 1.8V)
- 22-pin Push-IN connector:
 - RS485
 - Supply output (Vo) for sensors: 5 / 10 / 19 / 24 Vdc
 - 2 digital inputs
 - 2 digital outputs (opto-MOS)
 - 2 configurable analog inputs:
(voltage 0-25V / current 4-20 mA / digital)
 - 2 configurable analog outputs:
voltage 0-24V / current 4-20 mA / digital)
- 4 Leds (PWR / CONF / GSM / 1 configurable)

- Supplied with:

- Screw connector (Power supply)
- Push-IN connector (RS485 / Inputs / Outputs)
- RS232 cable (Sub-D 9-M / Sub-D 9-F)
- Straight Ethernet cable
- GSM hinged antenna (SMA-M)

AVERAGE CONSUMPTION

- Consumption in idle mode:
 - 180 mA @ 12 Vdc
 - 100 mA @ 24 Vdc
- Consumption in communication:
 - 330 mA @ 12 Vdc
 - 180 mA @ 24 Vdc

ENVIRONMENTAL & MECHANICAL

- Operating temperature: -20°C to +60°C
- Storage temperature: - 40°C to + 85°C
- Relative humidity: up to 90% with no condensation
- Height 104 mm x Width 55 mm x Deph 105 mm
- Weight: 430 g
- IP31 aluminum casing
- DIN Rail fixing

APPROVALS

- R&TTE
(Radio & Telecom. Terminal Equipment)
- European Certification
- RoHS compliant
- 5 years warranty

OPTIONS

- Voice alarm (MP3 file)
- GSM high gain antenna
- USB cable
- Standard mains block
- DIN Rail power supply
- Tropicalization



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