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L'esprit modem >>



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

The GenPro OEM is a robust, reliable and long-life product in SocketModem format. Its compact size provides an OEM product totally adapted to systems requiring a low-cost GSM/GPRS Class 10 connection.

The GenPro OEM provides connectivity IP protocols (TCP, UDP, FTP, SMTP, POP3).

Also, the Open-AT development tool allows supplementary onboard personalized applications.

The GenLoc OEM provides digital input/outputs allowing the development of onboard value-added telematic solutions.

GenPro OEM

- **GSM / GPRS COMMUNICATION**
- **SOCKETMODEM FORMAT**

TECHNICAL CHARACTERISTICS

GenPro OEM

GSM / GPRS FEATURES

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

VOICE FEATURES

- Voice (GSM mode)
- Telephony, Emergency Numbers 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 Library (PPP RFC, TCP Socket, UDP Socket, SMTP, POP3, FTP)
- Asynchronous data circuit, transparent and non-transparent up to 14400 bits/s
- SMS point to point MT/MO and SMS CB

INTERFACES

- GSM Antenna : RF pads supporting coaxial cable
- 64 pin DIL connector (pitch : 2mm)
- Power supply : 5 Vdc +/-10%.
- GSM module supply
- AT Commands : GSM 07.05 and 07.07.
- Specific AT commands
- V24 logic level: 5V
- V24 GSM / GPRS logic level: 5V
- SIM card reader internal (SIM 1.8V / 3V) or external
- 8 inputs/outputs accessible via SPI
- GSM activity indicator and output
- Bus SPI
- Buzzer output
- Watchdog

AVERAGE POWER CONSUMPTION

- GSM 850/900 MHz: 250 mA @ 5 V in communication
- GSM 1800/1900 MHz: 200 mA @ 5 V in communication
- Idle mode: 20 mA @ 5 V

ENVIRONMENTAL & MECHANICAL

- Operating temperature: - 20°C to + 55°C
- Storage temperature: - 30°C to + 85°C
- Dimensions:
 - Socket Modem Format
 - 64,5 x 34 x 15,5 mm, without SIM card
 - 75 x 34 x 15,5 mm, with SIM card inserted

1	BUZZER	64
2	GND	63
3	AUXV0	62
4	+5V	61
5		60
6	~DN/OFF GSM	59
7	WDI_GPID4	58
8	SPI_ID	57
9	SPI_CLK	56
10		55
11		54
12	/BOOT	53
13	GPID7_SPI	/RXD2 52
14	GPID6_SPI	/TXD2 51
15	GPID5_SPI	/CTS2 50
16	GPID4_SPI	VCC_2V8 49
17	GPID3_SPI	+VBAT 48
18	GPID2_SPI	CHG_IN 47
19	GPID1_SPI	BAT_TEMP 46
20	GPID0_SPI	VCC_RTC 45
21	SPI_AUX	/INTR 44
22	MIC2+	SPK2+ 43
23	MIC2-	SPK2- 42
24	/RESET	GND 41
25	WDO	/D TR1 40
26	GND	/DCD1 39
27	SIM_PRES	/CTS1 38
28	SIM_VCC	/DSR1 37
29	FLASH_LED	/RI 36
30	SIM_DATA	/TXD1 35
31	SIM_RST	/RXD1 34
32	SIM_CLK	/RTS1 33

OPTIONS

- GSM antenna cable :
Cable SMA-F - RG178 (67mm) - stripped/tinned
(ref: 4409012070)
- Starter Kit with accessories (ref: 4408100012)

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