

erco & gener

L'esprit modem >>



GSM/GPRS Quad-Band (850/900/1800/1900 MHz) connectivity into a M2M application.

The GenPro OEM SQB 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 SQB allows the creation of value-added wireless communication systems.

Entirely dedicated to the wireless markets throughout the world, the GenPro OEM SQB modem allows a simple and rapid integration of

GenPro OEM SQB 3.6V or 5V

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

TECHNICAL CHARACTERISTICS

GenPro OEM SQB

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)

VOICE FEATURES (3.6V version)

- Voice (GSM mode)
- Telephony, Emergency Numbers 112
- Full Rate, Enhanced Full Rate, Half Rate (FR/EFR/HR,AMR)
- Echo cancellation and noise reduction

DATA FEATURES

- GPRS Class 10 (Up to 4Rx / 2Tx)
- Supports PBCCH, coding schemes: CS1 to CS4
- Asynchronous data circuit, transparent and non-transparent up to 14400 bits/s
- SMS point to point MT/MO and SMS CB (Cell Broadcast)
- Event management

INTERFACES

- 64-pin DIL connector (pitch: 2mm)
- AT commands: GSM 07.05 and 07.07.
- Specific AT commands (event management)
- LED indicator
- **GenPro OEM SQB 3.6V:**
 - GSM antenna: RF pads supporting coaxial cable
 - Power supply: 3.6 Vdc \pm 5%.
 - V24 logic level: 1.8 to 5.5 V
 - Integrated SIM Holder (SIM 1.8V / 3V) or external
- **GenPro OEM SQB 5V:**
 - GSM antenna: MMCX female connector
 - V24 logic level: 5 V
 - Power supply: 3 à 5.5 Vdc \pm 5%.
 - Integrated SIM Holder (SIM 1.8V / 3V)

AVERAGE POWER CONSUMPTION

- GSM 850 / 900 MHz:
 - 250 mA @ 3.6 V - (1.6 A peak) in communication
 - 210 mA @ 5 V - (1.35 A peak) in communication
- GSM 1800 / 1900 MHz:
 - 215 mA @ 3.6 V - (1.3 A peak) in GSM communication
 - 170 mA @ 5 V - (1 A peak) in GSM communication
- Idle mode:
 - 18 mA @ 3.6 V
 - 20 mA @ 5 V

ENVIRONMENTAL & MECHANICAL

- Operating temperature: - 30°C to + 60°C
- Storage temperature: - 40°C to + 85°C
- Dimensions:
 - Socket Modem Format
 - 64,5 x 34 x 15,5 mm, without SIM card

1		64
2		GND 63
3		NC 62
4		+VCC 61
5		60
6		59
7		58
8		57
9		56
10		55
11		54
12		53
13		52
14		51
15		50
16		49
17		48
18		47
19		46
20		45
21	NC	UART Level 44
22	MIC+	SPK + 43
23	MIC -	SPK - 42
24	/RESET	GND 41
25	NC	/DTR1 40
26	GND	/DCD1 39
27	SIM_PRES	/CTS1 38
28	SIM_VCC	/DSR1 37
29	LED	/RI 36
30	SIM_DATA	/TXD1 35
31	SIM_RST	/RXD1 34
32	SIM_CLK	/RTS1 33

OPTIONS

- **GenPro OEM SQB 3.6V**
 - MMCX female connector
- **Accessories** (consult us)
 - Cables
 - Antennas
 - Starter Kit

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ZI de S' Lambert-des-Levées - BP 30163 - F-49412 SAUMUR Cedex

Tél. : +33 (0)2 41 83 13 00 - Fax : +33 (0)2 41 67 19 20 - www.ercogener.com - infos@ercogener.com

SA CAPITAL 183244 euros - R.C. SAUMUR B 332 174 820 - SIRET 332 174 820 00032 - NAF 2630Z - TVA Intra : FR 16 332 174 820