

Sony Ericsson



GM28 Terminal



Self-contained and flexible GSM/GPRS Modem: Land-line performance in Wireless Communication

- Dual Band GSM 850/1900 MHz
- Data, Fax, SMS and Voice
- HSCSD (2+1), up to 19.2 kbps
- Wide and useful range of I/Os
- Tricodec (HR/FR/EFR)
- MS Class B, GPRS Class 8 & P Channels
- Integrated TCP/IP stack
- FCC/PTCRB Approved
- Easy and cost-effective application development
- -30°C to +75°C operation

The GM28 is a powerful, compact and self-contained GSM/GPRS modem operating in the 850/1900 MHz bands for the North and Latin American Markets. This modem allows integrators and developers to quickly test application and product concepts based on or using GSM and/or GPRS communication. With standard connector interfaces and an integral SIM card reader the GM28 offers a ready and cost effective GSM communications solution for integration into a range of M2M applications including vending, POS, residential security, monitoring systems and fleet and asset tracking - requiring little modification to the existing hardware and software platform to which it is being integrated.

The GM28 is also a natural fit for integrators and application service providers to evolve to GPRS from legacy non-universal wireless data communication standards like CDPD and Mobitex, with minimal re-design burden. Use it as a solid alternative to a second land-based phone line for dial-up backup communication, e.g. for POS terminals. When communicating data through GPRS, the GM28 will provide the customer application a data rate comparable to that of high-speed dial-up modems. In addition, with its high data rate the GM28 is an ideal alternative to dial-up backup lines for broadband and dedicated data lines.

As with all Sony Ericsson products, the GM28 is backed by solid integration and development support, and ISO-9001 world-class quality.

GM28 Terminal

Product Features

- Dual Band GSM 850/1900 MHz Terminal
- Compliant with 3GPP GSM Phase 2+ NAPRD.03 standards (Small MS)
- Output power
 - Class 5 (0.8W) @ 850 MHz)
 - Class 1 (1W) @ 1900 MHz)
- Supply voltage
 - 5-32 VDC
- Standard RS232 9-way serial connection
- Overall dimensions (excluding connectors):
 - 77 x 67 x 26mm
- Operating Temperature:
 - -30°C to +75°C
- Weight: < 130g

Interfaces

- Data: RS232 9-way (V.28)
 - Remote control by AT commands
 - Serial baud rate from 1200 to 460,800 bits/s
- Power: 5-32 VDC
 - RJ11 connector
- Audio: 4-wire handset interface
 - RJ9 connector
- Antenna: 50
 - FME male connector
- SIM card reader: 3V/5V SIM interface with SIM detection

Data Features

- CSD asynchronous - non transparent up to 9.6 kbps
- HSCSD (2+1), up to 19.2 kbps
- MS Class B, GPRS Class 8, up to 85.6 kbps*
 - P Channel support
 - Coding schemes CS1-CS4
- GSM 07.10 Multiplexing Protocol

Short Messages Service (SMS) Features

- Text and PDU
- Point to point (MT/MO)
- Cell Broadcast
- Concatenation – up to 6 SMS

Fax Features

- Fax Group 3, Class 1 & 2

Voice Features†

- Telephony
- Emergency calls
- Full Rate, Enhanced Full Rate and Half Rate (FR/EFR/HR)
- Dual Tone Multi Frequency function (DTMF)
- Supports AMR

TCP/IP

- Intrinsic TCP/IP protocol stack

GSM Supplementary Services

- Call forwarding
- Call hold, waiting and multiparty
- Calling/called number identification
- Advice of charge
- USSD
- Alternate line service
- Customer service profile
- Preferred networks
- Operator selection
- Network registration
- Call barring
- Call transfer

Other Features

- ME + SIM phone book management – read/write/find, call screening, groups
- SIM Application Toolkit Class 2
- Real Time Clock
- Software upgradeable
- Audio control
- Fixed dialling number
- UCS2 16 bit data supported
- Commercially available accessories

* Requires network support

† US Carriers may require compliance with AMR or EOTD standards.



Sony Ericsson

Email: modules.info@SonyEricsson.com

Website: www.SonyEricsson.com/M2M