

Sony Ericsson



GM28



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

- Dual band
(GSM 850/1900 MHz)
- Instant and cost effective
RS232 serial modem
 - Standard connectors
 - Integral SIM card reader
- Data, fax, SMS and voice
- GPRS Class B (4+1)
 - Coding schemes CS1-CS4
 - P Channel support
- Easy to integrate
- PTCRB, FCC and
Major Carriers approved

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 applications 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

Product features

- Dual band GSM 850/1900 MHz serial modem
- GPRS Class B (4+1)
- Compliant with 3GPP GSM Phase 2+ NAPRD.03 standard (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 range: -25°C to +55°C
- Storage temperature range: -40°C to +85°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 up to 9.6 kbps
- HSCSD (2+1), up to 19.2 kbps
- GPRS Class B (4+1), 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 (FREFR/HR)
- Dual Tone Multi Frequency function (DTMF)

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, personal rings, settings
- SIM Application Toolkit Class 2
- Real Time Clock
- LED indicator
- Software upgradeable
- Options for embedding customer applications
- Audio control
- Fixed dialing number
- UCS2 16 bit data supported
- Commercially available accessories

* Subject to network support and terminal location.

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



Sony Ericsson

Sony Ericsson Mobile Communications (USA) Inc.

7001 Development Drive, PO Box 13969, Research Triangle Park, NC 27709 USA

Email: modules.supportusa@SonyEricsson.com

www.SonyEricsson.com/M2M