



Sony Ericsson

GM28/GM29 GSM/GPRS Terminal

Features:



*Self
Contained*

900+1800
850+1900

Dual Band



*GSM/GPRS
Class 8*



*Integrated
TCP/IP Stack*

GSM Ph 2+
FCC/PTCRB

*Fully Type
Approved*



Benefits

- Short time to market due to minimal hardware design
- Wireless GPRS Internet access
- Reduce cost of testing business concepts

The GM28/GM29 GSM/GPRS Terminal is a powerful, compact and self-contained unit designed for system integrators to quickly test application and product concepts based on or using GSM/GPRS communications. With standard connector interfaces and an integral SIM card reader the GM28/GM29 offers a ready and cost-effective GSM communications solution for integration into a range of business, commercial and industrial applications – requiring minimal modification to the existing hardware and software platform to which it is being integrated.

The GM28/GM29 is 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. The GM28/GM29 can be used as a solid alternative to a second land-based phone line for deal-up backup communications, e.g. for POS terminals. When communicating data through GPRS, the GM28/GM29 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/GM29 is an ideal alternative to dial-up backup lines for broadband and dedicated data lines.

Applications can include the monitoring and control of any electronically controlled system, industrial processes, electronic payment terminals and meter readings in areas such as gas, water, electricity and power networks. They also extend into service and maintenance in areas such as lifts, escalators, vending machines and point-of-sale equipment.

GM28/GM29 GSM/GPRS Terminal

Product Features

- Dual Band GSM/GPRS Terminal (EGSM 850/1900MHz [GM28] or GSM 900/1800MHz [GM29])
- Compliant with 3GPP GSM Phase 2+ (GCF-CC v3.8.1 [GM29]/NAPRD v.2.7.2 [GM28] standard) (Small MS)
- Output power:
 - Class 4 (2W) @ 850/900MHz
 - Class 1 (1W) @ 1800/1900MHz
- Power supply:
 - 5–32VDC
- Operating Temperature:
 - -30°C to +75°C
- Storage Temperature:
 - -30°C to +85°C
- Full Specification:
 - -10°C to +55°C
- Overall dimensions (excluding connectors):
77 x 67 x 26mm
- Weight: < 110g

Interfaces

- Data: RS232 9–way (V.28)
- Power and Extended I/Os: 5 – 32VDC (RJ11)
- Audio 4-wire Handset Interface (RJ9)
- Antenna: 50Ω (FME male)
- SIM card reader: 3V/5V interface with SIM detection

Data Features

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

Short Message Service (SMS) Features

- Text and PDU
- MT/MO & CBM
- Cell Broadcast
- Concatenation – up to 6 SMS

Voice Features

- Telephony
- Emergency calls
- Full Rate, Enhanced Full Rate and Half Rate (FR/EFR/HR)
- Dual Tone Multi Frequency function (DTMF)
- GM28 supports AMR

Fax Features

- Fax Group 3, Class 1 & 2[†]

TCP/IP

- AT Command access to TCP/IP stack
- Universal Datagram Protocol (UDP)

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

[†] US Carriers may require compliance with AMR or EOTD standards



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