



## GM29 Terminal



# Powerful Flexible Instant Solution

- Dual Band EGSM 900/1800 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
- Type Approved for GSM Phase 2+ standards
- Easy and cost-effective application development
- -30°C to +75°C operation

The Sony Ericsson GM29 is a dual band (GSM 900/1800MHz) GSM/GPRS serial modem that offers integrators an instant and cost-effective M2M solution for getting applications to market fast.

The GM29 is a plug-and-play modem with an integral SIM card reader and standard connector interfaces. By plugging the RS232 connector directly into an application or computer the GM29 becomes ready to use as a wireless modem. The modem can send and receive data by GPRS, HSCSD, CSD, SMS, and fax as well as handle voice calls.

The GM29 is a powerful and flexible solution that can be used in virtually any imaginable application and is ideal for vending, monitoring and control, security/alarms and fleet management.

The same levels of excellence that have been trademarks of Sony and Ericsson worldwide go into every radio device design. Sony Ericsson applies the same R&D and manufacturing expertise in these products as it does in its world-class mobile telephones.

M2M Com Product Unit of Sony Ericsson Mobile Communications is ISO-9001 Certified.

# GM29 Terminal

## Product Features

- Dual Band EGSM 900/1800 MHz Terminal
- Compliant with 3GPP GSM Phase 2+ (GCF-CC v.3.8.1) standards (Small MS)
- Output power
  - Class 4 (2W) @ 850/900 MHz
  - Class 1 (1W) @ 1800/1900 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)

## 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
- Options for embedding customer applications
- Audio control
- Fixed dialling number
- UCS2 16 bit data supported
- Commercially available accessories

\*Requires network support



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