



GM29

# Powerful Flexible Instant Solution



- Dual band  
(EGSM 900/1800 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
- R & TTE approval.  
  
Type approved for GSM  
Phase 2+ standards

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



## Product features

- Dual band EGSM 900/1800 MHz serial modem
- GPRS Class B (4+1)
- Compliant with ETSI GSM Phase 2+ standards (Small MS)
- Output power
  - Class 4 (2W @ 900 MHz)
  - Class 1 (1W @ 1800 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
- Software upgradeable
- Options for embedding customer applications
- Audio control
- Fixed dialling number
- UCS2 16 bit data supported
- Commercially available accessories