

# ICDistribution Limited Partnership

## GM800

### Dual-band GSM-GPRS Module

The ICD Mobile GM800 is a complete dual-band GSM-GPRS solution in a compact plug-in module. Featuring an industry-standard interface, the GM800 delivers EGSM900/GSM1800 performance for Voice, SMS, Data and Fax in a small form factor and with low power consumption. The GM800 comes with a powerful protocol stack and customisable colour MMI which make it ideal for integrating into mobile handsets. It is also suitable for PDA and telemetry applications. The GM800 is based upon a Texas Instruments™ chipset, and backed up by ICD Mobile comprehensive design and integration support, including an extensive range of software development tools. It provides the ideal solution for product developers who demand the fastest time to market with the lowest NRE cost.

### GM800

#### Product features

Dual-band  
EGSM900/GSM1800 GPRS  
MS10  
Output power:  
- EGSM900: Class 4 (2W)  
- GSM1800: Class 1 (1W)  
Power consumption (average):  
- Stand-by: 150µA  
- Idle: 3.2mA  
- In call (EGSM900, PCL5): 300mA  
Supply voltage: 3.6V nominal, 3.3V minimum, 4.5V maximum  
Dimensions: 42.5 x 32 x 2.7mm nominal  
Weight: 10g  
Ambient operating temperature range: -20°C to +55°C at 93% humidity  
Customisable for use with WAP and/or wireless data  
**Customisable MMI( For Handset)**  
applications including support for Chinese and European languages  
Control by AT commands for PDA/Telemetry Applications  
Designed to comply with all relevant GCF and Regulatory requirements  
Customisable MMI Features  
SIM Toolkit  
Phonebook  
Call records  
Settings  
Clock  
Security  
Net services  
Data / Fax / IrDA  
Tools  
SMS (Text and PDU mode / Point-topoint (MT/MO) / Cell broadcast)  
Polyphonic ringtone composer  
Colour LCD support  
Dual LCD support  
Polyphonic melody generator support  
Games

#### Audio

Telephony  
Emergency calls  
Full Rate, Enhanced Full Rate & Half Rate (FR/EFR/HR)  
Echo cancellation  
Noise reduction  
DTMF

#### GSM Data/Fax

CSD up to 14,400 bps asynchronous, transparent and non-transparent  
V.110  
Fax Group 3, Class 2

#### Interfaces

80-pin connector:  
Power supply connection  
Support for plug-In SIM card (3V or 3V/5V)  
5-wire RS232 serial link supporting remote control by AT commands; baud rate from 300 to 115,200 bps  
Analog audio  
Dual audio interface for internal microphone/speaker and headset  
Analog to digital converter  
Keyboard interface (5x5 matrix)  
Battery charging for handset applications  
SPI interface for handset LCDs and/or Melody generator  
Parallel interface for colour LCD and/or Melody generator  
GPIO interfaces  
Antenna output

#### GSM Supplementary Services

Call forwarding  
Call barring  
Multiparty  
Call waiting and call hold  
Advice of Charge (AoC)  
Calling line identity  
USSD

Subsidy protection: Network personalisation to GSM 02.22 standard (Network Operator, Service Provider, Lock to first SIM)

#### SIM Toolkit

Release 98 compliant, ETSI standard 11.14, Version 7.3.1  
Integration & Development Tools available  
Dialler applications  
PC AT Exerciser test tool  
Flash upgrader



ICDistribution Limited Partnership  
81/230 Moo2 Petkasam Road, Nongkhanpoo  
Nongkhem, Bangkok, 10160 Thailand

Contact:  
manager@ICDistribution.net  
<http://www.ICDistribution.net>  
Tel: (662)-810-7478 Fax: (662)-810-7478