

# GSM / GPRS Smart Modem

*Building the Technical Bridge...*

Get a complete GSM / GPRS (optional with GPS) solution in one robust unit. Put it in the toughest environments with a rugged construction. Count on it for proven, reliable performance. Make wireless data applications a reality with advanced features and functions.



Analogic Technomatics, a pioneer in Hand Held Terminals and computers, explored further to integrate innovative wireless data applications in M2M (Machine-to-Machine) criterion. Along with wide range of multi utility, multi functional applications, GSM/GPRS Smart Modem is yet another profound enhancement in Analogic's product range. The Smart modem delivers all the power of instant wireless connectivity to your multiple applications. Because the modem is fully type-approved, it can dramatically speed up the time to market with a full range of Voice, Data, Fax and SMS features (Optional TCP/IP) Housed in a rugged Aluminum alloy extrusion casing with good aesthetics and surface finish to withstand toughest field environments. The open interfaces and AT commands can embed and run your applications very efficiently. With its proven technology, the modem can be relied on, for enduring and dependable performance.

## Features:

- Dual-band 900 / 1800 MHz or 900 / 1900 MHz GSM / GPRS Modem
- Internet, Data, SMS, Voice, Fax (TCP/IP Services)
- GPRS Class B Class 2 (2Rx+1Tx) with maximum speed\*\*
- GPRS Class B Class 10\* (4Rx+1Tx or 3Rx+2Tx) with maximum speed\*\*
- Remote Control by AT Commands (according to GSM 07.07 and GSM 07.05)
- RF Performances are compliant with the ETSI recommendation 05.05 and 11.10

## Transmitter:

- Max. output power (EGSM) : 33 dBm  $\pm$  2 dB at ambient temp.
- Max. output power (GSM1800) : 30 dBm  $\pm$  2 dB at ambient temp.
- Min. output power (EGSM) : 5 dBm  $\pm$  5 dB at ambient temp.
- Min. output power (GSM1800) : 0 dBm  $\pm$  5 dB at ambient temp.
- H2 Level : < -30 dBm
- H3 Level : < -30 dBm
- Noise in 925 935 MHz : < -67 dBm
- Noise in 935 960 MHz : < -79 dBm
- Noise in 1805 1880 MHz : < -71 dBm
- Phase error at peak power : < 5° RMS
- Frequency error :  $\pm$  0.1 ppm max

Maximum output power	:	2 W for GSM 900 1W for GSM 1800 or GSM 1900
Input voltage	:	9 V to 32 V DC
Current	:	1.8A peak at 5.5 V, 330 mA average at 5.5 V
SIM Interface	:	3V / 5 V
Weight	:	125 grams

\* Available on special request

\*\* Available slot for GPRS Connection is Network dependent



**ANALOGIC**  
TECHNOMATICS (P) LTD.

## Receiver:

- EGSM Sensitivity : < -104 dBm Static & TUHigh
- GSM1800 Sensitivity : < -104 dBm Static & TUHigh
- Selectivity @ 200kHz : > +9 dBc
- Selectivity @ 400kHz : > +41 dBc
- Dynamic Range : 63 dB
- Co-channel rejection : > = 9 dBc

## Other Features

- ME+SIM phone book management
- Fixed dialing number
- SIM toolkit Class 2
- SIM, network and service provider locks
- Real time clock
- Alarm management
- Software upgrade through Xmodem protocol
- UCS2 character set management
- ADC & Digital I/Os as optional

## Interface

- RS232 15 pin D connector (Optional : USB port)
- Remote control by AT commands (GSM 07.07 and 07.05)
- Baud rate from 300 to 115,200 bits/sec
- Autobauding (300 to 38,400 bits/sec)
- Power supply through 2 pin socket
- SMA antenna connector
- Sliding / fixed landing SIM holder (3V/5V SIM interface)

## Services

- Data : Circuit asynchronous, transparent and non transparent modes, data rates upto 14.4 kbps
- Fax : Group 3 (Class 2)
- SMS : MT / MO / CB
- Voice : Telephony and Emergency Calls (through optional Hand Set)

## Temperature Range

- Storage -25 C to +70 C
- Operating 0 C to +55 C
- Dimensions 100 x 78 x 32 mm

## Deliverables

- Universal AC Adapter
- PC Communication Cable
- 0dBi Antenna (Magnetic mount or fixed screw mount)
- Optional 3, 5, 10 dBi antenna

## Typical Applications

- Automatic Meter Reading (AMR)
- GSM Pay Phones
- Fleet/Traffic Management (with optional GPS integration)
- Security Systems
- Mobile / Fixed Internet Connectivity
- Remote Data logging and reporting
- Low cost router
- System to monitor data over Internet
- Remote monitoring of Vending machines

## GSM Supplementary Services

- Call forwarding
- Call barring
- Multiparty
- Call waiting and call hold
- Calling line identity
- Advice of charge
- Closed user group
- Explicit Call Transfer

Contact us for more information :

**ANALOGIC**  
**TECHNOMATICS (P) LTD.**  
**ISO 9001 : 2000 COMPANY**

**HEAD OFFICE :** Plot No. 9/10, Road No. 6, Nacharam Industrial Estate  
Nacharam, Hyderabad – 500 076 (A.P), India.  
Ph : ++91-40-2717 2672 / 2673 / 2674, Fax : ++91-40-2717 2675  
Email : atm@analogicgroup.com Website : www.analogicgroup.com

**New Delhi:**  
# K-13A, 2nd Floor, Green Park Extension  
Near Opel Service Centre, New Delhi -110 016  
Tel: 011-5175 5697 Mob: (0) 93508 15531

**Bangalore :**  
No.4, 1st Main, 1st Block, RT Nagar  
Bagalore - 560 032  
Tel: 080-2343 5464 Mob: (0) 98863 41048

**Pune:**  
1A-Gera Riverside, Opp. Bund Garden  
Popular Height Road, Koregaon Park, Pune -1  
Tel: 020-26050953

**Bhubaneswar :**  
# N1/243, IRC Village, Nayapally  
Bhubaneswar - 751 015  
Tel: 0674-2553471, Mob: (0) 94370 13471

**Vijayawada :**  
L2, Classic Towers, Moghulrajpuram  
Madhu Chowk, Vijayawada - 520 010  
Tel: (0) 98489 95606

**Hubli :**  
#75, Srinivasa Nilayam, Kurdekar Building  
2nd Cross, Shirur Park, Vidyanagar  
Hubli – 580 031, Mob: (0) 98458 64753