

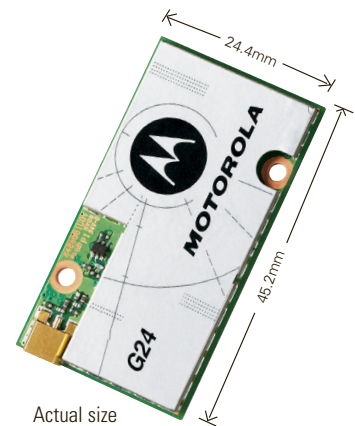
G24 GSM module

Delivering seamless mobility to the M2M world.



Motorola's G24 high-speed, quad-band GSM module enables seamless connectivity for today's fastest-growing M2M applications. The G24, a single engine capable of multiple software configurations, including JAVA, is designed for flexibility to meet the specific needs of its customers around the globe.

Motorola, the wireless pioneer in both the M2M and the automotive industries, brings to market cutting-edge technologies and rugged hardware. These meet in the design of a cost-effective, easily integrated mobility engine. Motorola establishes true partnerships with customers to deliver reliable, customized products and best-in-class support. Our service approach ensures Motorola customers the ability establishing the foundation for increased productivity and efficiency, while conforming to the strictest industry standards.



MOTO2MOTO



The G24 GSM Module, a lead-free, environmentally friendly product, conforming to the RoHS standard, is the most compact module available and is ideally suited for a wide range of M2M applications, including:

- Security and Tracking
- Telemetry and Automated Meter Reading (AMR)
- Automotive Telematics Control Units (TCU)
- Electronic Point-Of-Sale (EPOS)

G24 GSM module

Product Specifications

PRODUCT FEATURES

Operating Systems

- Quad band
850/900/1800/1900 MHz

Physical

- Size: 24.4 x 45.2 x 6.0 mm
(6mm stacking height).
- Mounting: Two 2.4 mm holes
- Weight: 11.9 gram

Environmental

- Operating temperature:
-20°C +70°C
- Extended temperature
-30°C +85°C
- Storage temperature:
-40°C +85°C

PERFORMANCE

Operating Voltage

- Voltage: 3.3 - 4.2V

Current Consumption

- < 2.5mA @DRX9 (Idle mode)

TX Power

- 850/ 900 MHz – Class 4 (2 Watt)
- 1800/1900 MHz – Class 1 (1 Watt)

Typical RX sensitivity

- 106db (A -4db margin on top of spec)

INTERFACES

Connectors

- Single 70 pin board to board
- RF MMCX

SIM Card

- 1.8V /3.0V
- STK 3.1

JAVA FEATURES - model dependant

- CLDC 1.1
- MIDP 2.0
- OTA Midlet download
- Midlet auto start
- More than 1Mbyte of application memory
- 256Kbyte RAM
- 3 simultaneous serial connection (2 UART, USB) for Midlet usage
- 8 GPIO's

SERIAL

- USB 2.0 full speed
- RS232 :
BR from 300 bps to 460 Kbps
Auto BR

DATA FEATURES

GPRS

- Multi slot class 10 (4 Down; 2 Up; 5 Total)
- Max BR 85.6 Kbps
- Class B GSM 07.10 multiplexing protocol
- Coding Scheme CS1-CS4
- Embedded TCP/IP and UDP/IP protocol stack

EDGE - model dependant

- Multi slot class 10 (4 Down; 2 Up; 5 Total)
- Max BR Downlink 236.8 Kbps (Over RS232)
- Coding Scheme MCS1-MCS9

CSD

- Max BR 14.4 Kbps

SMS

- MO / MT Text and PDU modes
- Cell broadcast

FAX Class 1

VOICE FEATURES

- Telephony
- Digital audio
- Differential analog audio lines
- Vocoders EFR/HR/FR/AMR
- DTMF support
- Audio control: echo cancellation; noise suppression; side tone; gain control

GSM SUPPLEMENTARY SERVICE

- USSD phrase II
- Call forwarding
- Call hold; waiting; multipart
- Call diverting
- Missed call indicator
- AOC
- Call barring

CHARACTER SET

- UTF8
- UCS2
- GSM
- IRA
- HEX

CONTROL / STATUS INDICATIONS

- 8 GPIO's
- 3x A2D converters
- GPRS coverage
- Wake up
- Antenna detect

AT COMMAND SET

- GSM 0705
- GSM 0707
- GSM 0710
- Motorola proprietary AT commands

ACCESSORIES

- Firmware data loader over serial connection
- Data logger
- Developer Kit

REGULATORY AND APPROVALS

- FTA, FCC, DOC, PTCRB
- R&TTE
- GCF
- EMC
- BABT
- QS9000 manufacturing



CONTACT

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