



G24 Lite GSM Module

Delivering seamless mobility to the M2M world



- Quad Band
- GPRS Class 10
- Compact Size
- RoHS
- Ext. RF
- Fully Type Approved

Hello Scalability.

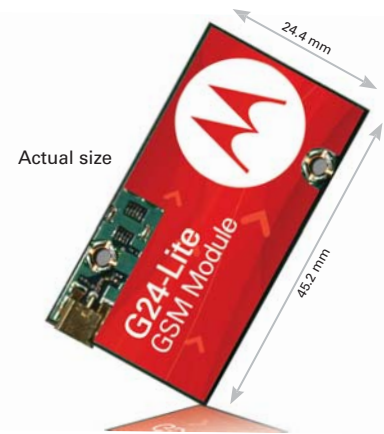
Take advantage of M2M. We've invented the "Lite" version of the G24 for large-scale M2M systems that have simple functional needs. With a price tag that matches its name, G24 Lite offers Motorola quality and a specifically selected feature set for a whole new generation of M2M.

Broadens your vistas.

Now, more systems and environments can reap the benefits of going wireless. If you thought that M2M was too prohibitive for you to consider, think again. Motorola has made M2M affordable for your specific needs. Do you have hundreds of thousands of meters that need to be read across the country? Do you want to automate service to your thousands of outsourced machines throughout the metropolitan area? Then opt for Motorola Lite and let your machines do the talking. Streamline the way you work and do wonders for your bottom line.

Lightens your load.

The G24-L is part of the Motorola family, which means quality and long-term relationship. With over 80 years in the industry, we have been around long enough to design top-quality products and we are going to be here to service your needs in the future. We nurture our bond with you so you can create successful relationships with your customers. When you choose Motorola, it goes without saying that our M2M components are replaceable, upgradeable and dependable over time.



Completes the package.

Motorola is more than the sum of its products. We are service providers. We accompany you through the design stage, deliver specialized assistance through accreditation and provide dedicated support for any upgrades, additions or questions you may have in the future. As wireless pioneers who have introduced numerous technologies in the field, we know our business. And we're here to stay.

G24-L Product Specifications

Product Features

Supported Bands

- GSM Quad Band
850/900/1800/1900 MHz

Physical

- Size: 24.4 x 45.2 x 5.8 mm
(6.5mm stacking height)
- Mounting: two 2.4 mm holes
- Weight: 9 gram

Environmental

- Operating temperature:
-20c +75c
- Storage temperature:
-40c +85c

Performance

Operating Voltage

- Voltage: 3.3 - 4.2V

Current Consumption

- < 2.5mA @DRX9 (Sleep mode)

TX Power

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

Typical RX sensitivity

- -106dBm
(4dB margin on top of spec)

Interfaces

Connectors

- Single 70 pin board to board
- RF MMCX

SIM Card

- 3.0V / 1.8V
- STK 3.1

Connectivity

- USB 1.1 full speed
- UART: BR from 300 bps to 115.2 Kbps
Auto BR

Regulatory and Approvals

- FCC, IC, CCC
- FTA, PTCRB
- R&TTE
- GCF
- EMC
- RoHS/WEEE

Data Features

GPRS

- Multi-slot class 10
(4 Down; 2 Up; 5 Total)
- Max BR Downlink 85.6 Kbps
- Coding Scheme CS1-CS4

CSD

- Max BR 14.4 Kbps

SMS

- MO / MT Text and PDU modes
- Cell broadcast

Voice Features

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

GSM Supplementary service

- USSD phase II
- Call forwarding
- Call hold; waiting; multiparty
- Call diverting
- Missed call indicator
- AOC
- Call barring

Character Set

- UTF8
- UCS2
- GSM
- IRA
- HEX

Control / Status Indications

- 8 GPIO's
- 3x A/D general purpose converters
- GSM/GPRS coverage
- Wake up in/out
- Antenna presence detect

AT Command Set

- GSM 07.05
- GSM 07.07
- Motorola proprietary AT commands

Accessories

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

Battery Charger – Model Dependant

- Supports 3.7V Lithium-Ion battery
- 500 mA max charging capability
- Complies with EN60950 and IEEE-1725
- Battery safety temperature
measurement

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