



**EDGE**

**G24 - JAVA**  
 Compact



-  **Quad Band GPRS**
-  **EDGE Class 10**
-  **GPRS Class 10**
-  **Ultra Compact**
-  **RoHS Compliant**
-  **Extended Temperature Range**
-  **Extended RF Sensitivity**
-  **24 Family Form Factor**

G24-JAVA – built for easy integration into various M2M projects, it can power many applications, tracking, automation and control units, point of sale, remote metering, security, vending machines, fleet management devices or any other M2M project that you can imagine. G24-JAVA can deliver seamless communication and control, while we work with you to tailor the solution to your needs.

G24-JAVA is built with Telit’s time-tested “24” family form factor, giving you flexibility with a single design solution for zero time, zero effort integration. Our GSM/GPRS/EDGE module enables your host device to draw on Telit’s G24 CPU and memory. The G24-JAVA comes in the same form factor as the G24 family, so you can easily design for it – then plug and play. With multiple protocols built in you have a rich software platform and a full range of interfaces – advantages that speed the development of a powerful, reliable M2M environment.

Telit’s renowned commitment to quality and dedicated support continue to set the standard for M2M. Our products and manufacturing processes are held to the harshest industry standards, providing modules that are built to last. From design phase to accreditation, Telit is here for you.

**Product Features**

**Supported Bands**

- Quad Band 850/900/1800/1900 MHz

**Physical**

- Size: 24.4 x 45.2 x 6.0 mm
- Mounting: two 2.4 mm holes
- Weight: 10.1 gram

**Environmental**

- Operating temperature: -30°C to +85°C
- Storage temperature: -40°C to +85°C

**JAVA Features**

**Model Dependent**

- JSR 185 JTW1 compliant:
- JSR 139 CLDC 1.1
- JSR 118 MIDP 2.0
- JSR 135 MMAP 1.1
- JSR 120 WMA 1.1
- JSR 75 compliant:
- File connection API
- PIM API
- Proprietary API

# G24 - JAVA

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## Performance

### Operating Voltage

- Voltage: 3.3 - 4.2V

### Current Consumption

- < 3.5mA @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
- STK 3.1

### Connectivity

- USB 2.0 full speed
- UART: baud rate from 300 bps to 460 Kbps Autobauding
- Two physical UARTs for AT commands & Data
- I2C
- MUX 27.010 Support

## Data Features GPRS

- Multi-slot class 10
- Class B GSM 07.10 MUX
- Coding Scheme CS1-CS4
- Embedded TCP/IP and UDP/IP protocol stack
- Embedded FTP
- Embedded SMTP/POP3 - e-mail
- SSL - Secure Connection

## EDGE

- Multi-slot class 10 (4 Down; 2 Up; 5 Total)
- 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
- Vcoders 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 A2D general purpose converters
- GSM/GPRS coverage
- Wake up in/out
- Antenna presence detect
- Temperature sensor
- Voltage sensor
- Jamming Detection

## AT Command Set

- GSM 07.05
- GSM 07.07
- GSM 07.10
- Proprietary AT commands

## Regulatory and Approvals

- FCC, IC
- ANATEL (Brazil)
- COFETEL (Mexico)
- CMII (China)
- PTCRB
- R&TTE/CE
- GCF
- QS9000 manufacturing
- RoHS/WEEE/CCC



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