














EDGE

G24 - EDGE
 Compact



-  **Quad Band GPRS**
-  **EDGE Class 10**
-  **GPRS Class 10**
-  **Ultra Compact**
-  **RoHS Compliant**
-  **Extended Temperature Range**
-  **Extended RF Sensitivity**
-  **Embedded TCP/IP Stack**
-  **Embedded FTP and SMTP Client**
-  **SSL - Secure Connection**
-  **24 Family Form Factor**

When machines are communicating with machines, there is nothing more important than knowing you can trust the interaction. We meticulously develop and test our products so that we know they will continue to shine over time.

G24 is the small engine that does. Powering connectivity in every type of M2M application, the G24 is made to meet your needs: you get a high-speed, quad band GSM/GPRS/EDGE module, with rich functionality. With exceptional RF performance, you are connected virtually anywhere and everywhere. Traditional performance obstacles don't stand in our way.

Maintaining a relationship with you is part of our game. Telit is devoted to excellence in customer service and support. We are here from the moment you begin your design and provide maintenance throughout the product's life. As an industry pioneer, Telit has deep relationships with certification institutions and draws on these to assist customers with industry approvals.

G24 is designed to shorten expensive processes and get you to market in a flash. With built-in internet and security protocols and a design that allows the host to leverage its CPU and memory, G24 is easy to integrate. The G24-EDGE is one of a family of same form factor engines, enabling you to design your system with simple modularity.

Product Features

- Supported Bands**
- 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: 10.1 gram
- Environmental**
- Operating temperature: -30°C to +85°C
 - Storage temperature: -40°C to +85°C

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)

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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 up to 460 Kbps
- Two physical UARTs for AT commands & Data
- MUX 27.010 Support
- 15 GPIO's
- A2D converters
- 3 simultaneous serial connections (2 UART & USB)
- CSD/Voice call
- General operations and settings
- OTA Midlet download
- Midlet auto start
- 1.8 MB RAM
- On-device debugging

Data Features

General

- IP stack with TCP and UDP protocol
- Embedded FTP
- Embedded SMTP/POP3 - e-mail
- SSL - Secure Connection

GPRS

- Multi-slot class 10
- DL up to 85.6 kbit/s
- UL up to 42.8 kbit/s
- Coding Scheme CS1-CS4

EDGE - Model Dependent

- 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 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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