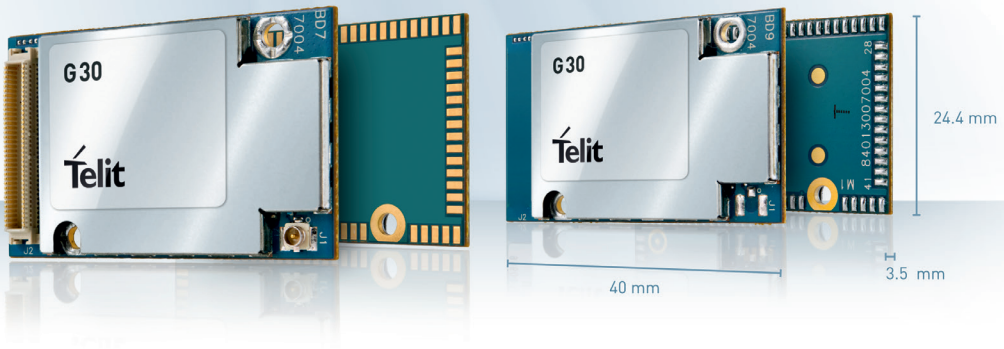
Telit wireless solutions
Making machines talk.

G30

m2mAIR READY



GSM | GPRS Compact Embedded

Product Description

G30 is a quad-band GSM/GPRS module that features both an LGA form factor and an optional 70-pin board-to-board connector. The LGA form factor enables cost effective, scalable automated manufacturing, while the optional connector is fully compatible with the "24" Family platform. It has been designed for "Zero time, Zero effort" integration in order to, significantly reduce time-to-market.

The G30 is the first product in the Telit portfolio that implements the AppZone. This is a breakthrough innovation that enables applications to run inside the module, which removes the need for an external microcontroller.

Key Benefits

- Ideal choice for any M2M segment demanding small host devices, such as AMR, telematics, security and ePOS
- Telit AppZone enables easy M2M development with industry standard C code, without the need for an external CPU
- High design flexibility thanks to the double SMT / board-to-board connector option
- Quad-band 850/900/1800/1900 MHz GSM/GPRS
- Optional Embedded SIM (eSIM)
- Telit AppZone

Family Concept

The x24/30 is a family of compact connectorized cellular modules including quad-band GSM/GPRS, EDGE, CDMA, as well as HSPA air interface options. Modules in this family are offered for new and legacy Motorola M2M designs in a 24.4 x 45.2 mm package with a 70-pin board-to-board connector, all completely pin-to-pin compatible both electrically as well as functionally.

m2mAIR Ready

This product is capable of supporting the extensive suite of m2mAIR value-added services and connectivity you can use to enhance your application and boost your competitive advantage.

Find more information on www.m2mair.com

AVAILABLE FOR

- EMEA
- North America
- Latin America
- APAC
- Korea
- Australia

Combine your **Cellular** module with

- Short Range modules
- GNSS modules

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ONE STOP.
ONE SHOP. NOW, INNOVATE!

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G30

Product features

- GSM Quad-band 850/900/1800/1900MHz
- 2 A/D converters
- 9 dedicated GPIOs (8 when using Board 2 Board connector)
- Wake up & Sleep mode mechanism
- RTC supply output
- Ext. Reset In
- Antenna Detection
- Telephony
- Digital / Analog Audio in & out
- Vocoders HR/FR/EFR/AMR
- DTMF support
- TTY (Telephone Typewriter)
- Echo cancellation
- Noise reduction
- Side tone
- PDU / Text mode
- Cell broadcast
- Proprietary AT commands
- Control via AT commands according to 3GPP TS 27.005, 3GPP TS 27.007 and customized AT commands
- MUX 27.010
- UART MUX
- Jamming Detection
- Optional EmbeddedSIM (eSIM)
- Full-duplex Audio
- Full gain control
- Up to 6 Audio settings

Data

General

- Internal TCP/IP & UDP/IP
- Embedded FTP

GPRS

- Multislot Class 10
- DL up to 85.6 kbit/s
- UL up to 42.8 kbit/s
- Coding Scheme CS1 - CS 4

CSD

- CS data calls (transparent / Nontransparent) up to 9.6kbps
- Modem type V.32, V.110

SMS

- PDU / Text mode
- Cell broadcast

Environmental

- 24.4 x 40.0 x 3.5mm
- Weight < 6g
- Mounting: LGA device with 81 pins, Pitch 1.27mm
- Optional 70-pin Board 2 Board connector
- Operating Temperature: -40°C to +85°C
- Storage Temperature: -40°C to +85°C

Interfaces

Connectors

- Antenna 50Ω solder pad (via LGA only)
- Antenna RF U.FL Connector (Optional)
- Serial interface
- SIM card interface
- Multiple GPIOs
- 70-pin Board 2 Board connector "24" Family compatible (Optional)

Connectivity

- UART: baud rate up to 230.4Kbps
- Auto baud rate
- Flash Mode baud rate: up to 920Kbps

SIM Card

- 1.8 /3V
- SIM Toolkit R99

Approvals

- Fully type approved conforming with R&TTE directive
- CE, GCF, FCC, PTCRB, IC, AT&T

Electrical & Sensitivity

- Operating Voltage:.3 – 4.2 V
- Current Consumption
  - < 2.0mA (Idle Mode)
  - < 350mA (GSM call)
  - < 450mA (GPRS data call)
  - < 90µa (Power Off Mode)
- TX Power
  - 850/900MHz class 4 (2 Watts)
  - 1800/1900MHz class 1 (1 Watt)
- Typical RX Sensitivity
  - -108dBm

Software

AppZone application resources

- Programming language: C
- 1 MB File system space
- AppZone application size up to 512KByte
- 512KByte RAM available to AppZone application
- Supports: GPIOs, I²C, UART, A2D

Join the Telit Technical Forum

For a quicker and more rewarding integration experience join the Telit Technical Forum. There you can browse the first open forum covering all m2m topics, get direct support by region (EMEA, North America, Latin America, APAC), take part in this quickly growing m2m community and exchange experiences.

Telit Communications S.p.A.
Via Stazione di Prosecco, 5/B
I-34010 Sgonico (Trieste), Italy
Phone +39 040 4192 200
Fax +39 040 4192 383
E-Mail EMEA@telit.com

Telit Wireless Solutions Inc.
3131 RDU Center Drive, Suite 135
Morrisville, NC 27560, USA
Phone +1 888 846 9773 or +1 919 439 7977
Fax +1 888 846 9774 or +1 919 840 0337
E-Mail NORTHAMERICA@telit.com

Telit Wireless Solutions Inc.
Rua Paes Leme, 524, Conj, 126
05424-101, Pinheiros,
Sao Paulo-SP-Brazil
Phone +55 11 3031 5051
Fax +55 11 3031 5051
E-Mail LATINAMERICA@telit.com

Telit Wireless Solutions Co., Ltd.
12th Fl., Shinyoung Securities Bld.
34-12, Yeouido-dong, Yeongdeungpo-gu
Seoul, 150-884, Korea
Phone +82 2 368 4600
Fax +82 2 368 4606
E-Mail APAC@telit.com

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