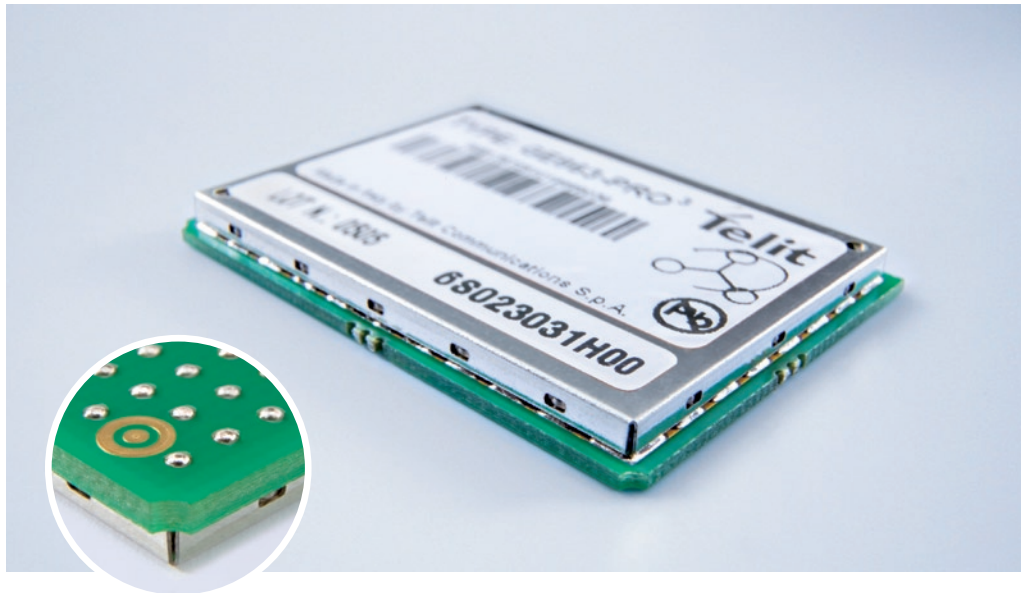


GSM | GPRS

GE863-PRO³

Embedded



0101 Telit Unified
0101 AT Command Set

BGA Package

Telit Firmware
Management Services

Quad Band GPRS

GPRS Class 10

RoHS Compliant

SIM Access Profile

C++ Programming in C++

ARM9 ARM9 220 MIPS
Embedded

Linux

Embedded FTP
and SMTP Client

Extended
Temperature Range

Extended
RF Sensitivity

Serial Port Multi-
plexer (GSM 27.010)

Embedded
TCP/IP Stack



The GE863-PRO³ is an innovation to the quad-band, RoHS compliant GE863 product family which includes a powerful ARM9™ processor core exclusively dedicated to customer applications. The concept of colocating a powerful processor core with the GSM/GPRS engine allows developers to host their application directly. The PRO³ incorporates much of the necessary hardware for communicating microcontroller solutions, including the critical element of memory, significant simplification of the bill of material, vendor management, and logistics effort are achieved.

Additionally, this packaging of powerful components virtually eliminates the need for regulatory re-certifications typically required when key components such as memory are changed.

The PRO³ is offered in a Ball-Grid-Array (BGA) package enabling very low profile and small product size required for the design of extremely compact applications. Since connectors are eliminated, the solution cost is significantly reduced compared to conventional mounting concepts. With its low profile design, dedicated 8/64 MB SDRAM, 4 MB serial flash, and its extended programming capabilities in C++, the Telit GE863-PRO³ is the ideal hardware platform for complete and compact customer solutions.

The GE863-PRO³ was designed to simplify connectivity through the availability of interfaces such as SPI, IIC, SD/MMC and USB (Host/Device). Telit offers a vast collection of reference designs enabling use of the PRO³ with external peripherals such as camera, keyboard, display, Wi-Fi®, Bluetooth®, SmartCard, SD Card, Ethernet, ZigBee® and GPS.

Application development is accomplished easily given Telit's continued commitment to open systems. With the use of LINUX (optional), developers have access to an extensive library of drivers for different peripherals and to complete development environments.

All Telit modules, support Over-the-Air firmware update by means Telit Firmware Management Services (TFMS). Telit is able to update its products by transmitting only a delta file, which represents the difference between one firmware version and another.

As a part of Telit's corporate policy of environmental protection, all products comply with the RoHS (Restriction of Hazardous Substances) directive of the European Union (EU Directive 2002/95/EG).

Product features

- Quad-band EGSM 850 / 900 / 1800 / 1900 MHz
- Output power
 - Class 4 (2W) @ 850 / 900 MHz
 - Class 1 (1W) @ 1800 / 1900 MHz
- Control via AT commands according to GSM 27.05, 27.07 plus Telit enhancements
- Wide supply voltage tolerant: 3.3 – 4.5 V DC
- Operating supply voltage: 3.22–4.5 V DC (3.8 V DC recommended)
- ARM9™ core 220 MIPS
- Serial port multiplexer GSM 27.010
- SIM access profile
- Sensitivity:
 - 107 dBm (typ.) @ 850 / 900 MHz
 - 106 dBm (typ.) @ 1800 / 1900 MHz
- Dimensions: 41.4 x 31.4 x 3.6 mm
- Weight: 9 grams
- Extended temperature range
 - 30°C to +80°C (operational)
 - 40°C to +90°C (storage temperature)
- RoHS compliant
- Embedded SSL encryption
- TCP/IP stack supporting UDP, FTP, SMTP, PPP via AT commands

Making machines talk.®

