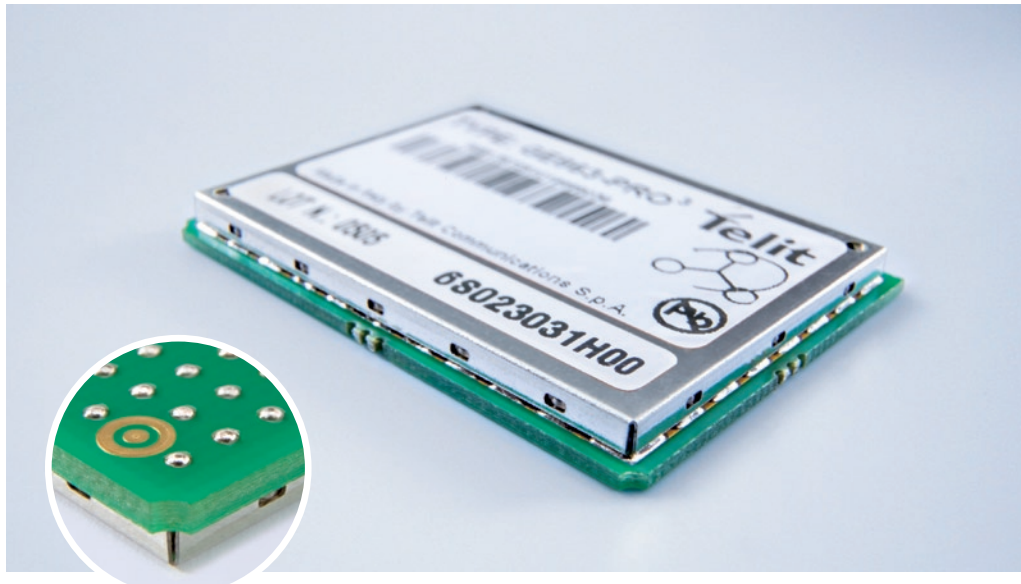


## GSM | GPRS

# GE863-PRO<sup>3</sup>

Embedded



0101 0101	Telit Unified AT Command Set
	BGA Package
	Quad Band GPRS
	GPRS Class 10
	RoHS Compliant
	SIM Access Profile
	Programming in C++
	ARM9 220 MIPS Embedded
	Linux
	Embedded FTP and SMTP Client
	Extended Temperature Range
	Extended RF Sensitivity
	Serial Port Multiplexer (GSM 7.10)
	Embedded TCP/IP Stack



The GE863-PRO<sup>3</sup> 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 PRO<sup>3</sup> 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 PRO<sup>3</sup> 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-PRO<sup>3</sup> is the ideal hardware platform for complete and compact customer solutions.

The GE863-PRO<sup>3</sup> 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 PRO<sup>3</sup> 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 Premium FOTA Management. By embedding RedBend's vCurrent® agent, a proven and battle-tested technology powering hundreds of millions of cellular handsets world-wide 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.®**

