Telit wireless solutions

Evaluation Kit

EVK-PRO^3
for GE 863-PRO^3

EVK-PRO^3 with GE863-PRO^3 Interface (adapter board)

The Telit Evaluation Kit EVK-PRO^3 provides a ready, future-proof and flexible environment for a quick and easy development of applications with Telit GE863-PRO^3, revolutionary GSM/GPRS engine including ARM9 processor core, and in this way dramatically reducing time-to-market.

The kit is formed by a motherboard, on top of which an interface (adapter board) with the GE863-PRO^3 module is plugged in. This concept allows using a unique motherboard compatible for both GE863-PRO^3 with Linux or without OS, and can also be applied for future product variants.

On the motherboard are placed several interfaces, such as 4 x RS232, 2 host USB 2.0 and 1 device USB 2.0, Ethernet, SD/MMC, ISO 7816, as well as Reset and ON keys for both GSM/GPRS and ARM part, which represent a reference design for this peripheral circuitry of the module. The ARM core and the GSM/GPRS engine can establish connection on the adapter board and both sides of the communication can be monitored on the RS232 ports.

Adapter boards convert the connection technology of the module (BGA solder) into a PTH pin connector. The part of the basic interfaces is served by the mother-board, whereas specific interfaces according to the type of the module like antenna, General Purpose I/O (GPIO), SIM connector, ARM JTAG etc. are available on the adapter board to connect to the user's application, extension boards or other development tools or measurement equipment.

The Telit EVK-PRO^3 is a tool for:

- Developing applications: based on GE863-PRO^3 by means of AT commands through the serial ports
- Easy programming and updating
- Debugging Telit-module-based applications

- Implementing simple applications (stand alone function) by executing a script over a Python interpreter (only GE863-PRO^3 with Linux OS) or in C/C++ without any external microprocessor

Making machines talk.®

EVK-PRO^3
for **GE**863-PRO^3

Telit is in it.

accessories included in EVK-PRO^3

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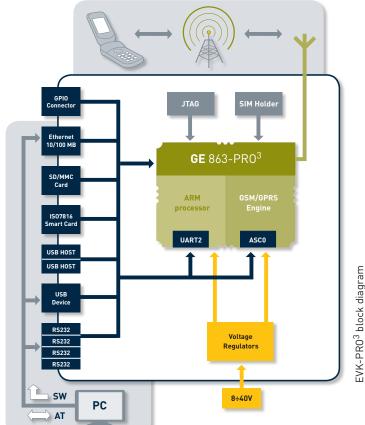E-Mail: EMEA@telit.com

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EVK-PRO^3 block diagram

RS-232

The communication between the application and the GE863-PRO^3 is achieved by connecting the Asynchronous Serial Interfaces (ASC0 and ASC1), through a double stacked standard DB9 connector, that provides 4 serial communication paths (RS232 protocol, up to 115 Kbit/sec).

The communication between the external application and the ARM core is achieved through a double stacked standard DB9 connector or USB Device.

Power supply inputs

The EVK-PRO^3 provides following power supply inputs which allow using it in the different environment:
8 to 40 Volt supply

General purpose inputs / outputs

With the EVK-PRO^3, all general purpose inputs/outputs are made accessible on the adapter boards by a respective number of pins on the PTH-type connector.

This allows the applicators to build their own interface boards which fit best their various requirements, e.g. with custom connectors, cables, relays, LEDs, etc.

Power supply	Automotive setup: 8 to 40 Volt supply
RESET & power ON button	Separated for GSM/GPRS and ARM
Fuse protection	On all input DC lines
Reverse polarity protection	On all input DC lines
LED indicator	1 for GMS, 1 for ARM and 3 for ethernet
SIM card holder	Yes (available on the adapter board)
GPIO	Yes (all 90+9 available on the interface board)
Serial ports	4 x RS-232
USB	2 USB Host 1 USB Device
MCI	SD/MMC
Ethernet controller	Yes (10 - 100Mb/s)
ISO7816 Interface	YES (Smart cards and Security Access Modules)

Order-No.

Model	P/N	GSM Engine
EVK-PRO^3	3 990 150 470	-
GE863-PRO^3 Interface without OS	3 990 250 697	GE863-PRO^3
GE863-PRO^3 Interface with Linux OS	3 990 250 699	GE863-PRO^3

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