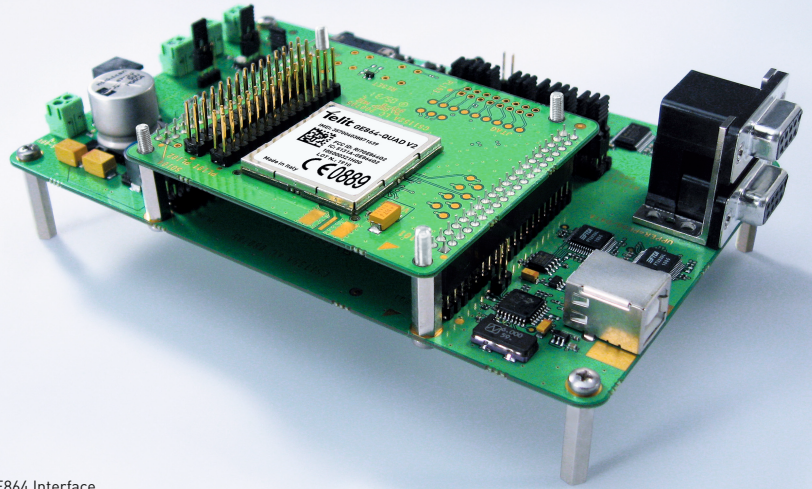


Evaluation Kit

EVK2 for all Telit Modules



EVK2 with GE864 Interface

The Telit Evaluation Kit (EVK2) provides a robust, future-proof and flexible environment for rapid development of applications for the full range of GSM/GPRS, UMTS/HSDPA and CDMA module families, dramatically reducing time-to-market.

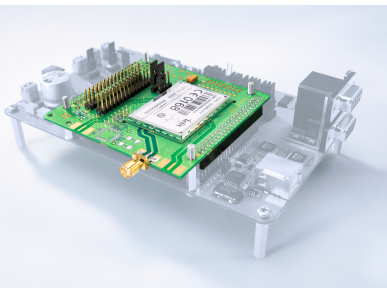
The kit is comprised of a motherboard, and an adapter board in which the relevant module is connected. This concept allows the EVK2 to be used across various form factors and product generations, both present and future.

The motherboard includes the basic interfaces, such as power input, SIM card holder, audio monitor outputs, RS-232, and USB 1.1, as well as a Reset button and power switch. The motherboard represents the recommended reference design for the module's peripheral circuitry. Jumper blocks on the motherboard define the routing of the serial interfaces, audio signals, and power supply. The PC or DTE controlling the module over the AT-command interface can be connected via USB or RS-232.

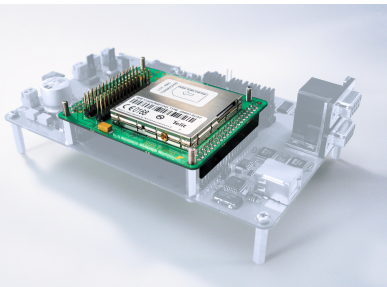
Adapter boards are available in different models to allow development for the desired module family (board-to-board or BGA solder). The set of basic interfaces found on by the motherboard. The set of interfaces specific to the module (e.g. antenna, general purpose inputs/outputs (GPIO), ADC/DAC, UART etc.) is found on the adapter board for connection to the user's application, extension boards, or other development tools and measuring equipment.

The Telit EVK2 is a tool for:

- Developing applications based on current and future Telit GSM/GPRS, UMTS/HSDPA, and CDMA module families via AT commands through serial ports
- Programming and updating of all Telit modules
- Debugging Telit-module-based applications
- Implementing simple applications (stand alone function) by executing scripts using a Python interpreter equipped module without the need for an external microprocessor



EVK2 with GE863 Interface



EVK2 with GM862 Interface



Making machines talk.[®]

EVK2
for all Telit Modules



accessories included in EVK2



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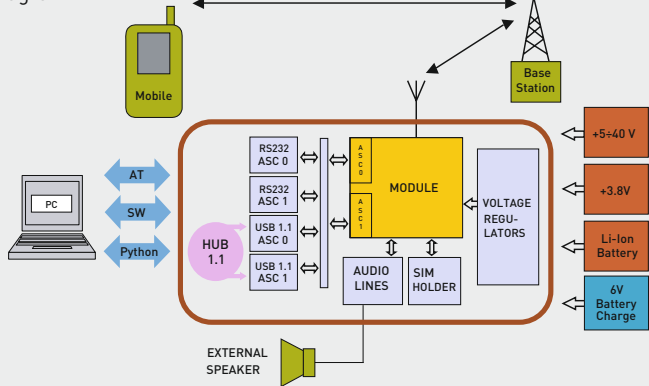
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EVK2 block diagram



RS-232 / USB 1.1 serial ports

The communication between the application and the Telit module is done through Asynchronous Serial Interfaces (ASC0 and ASC1), seen on the motherboard as a double stacked standard DB9 connector providing two serial communication ports (RS-232 up to 115 Kbps).
Alternatively, this communication can be done through a CMOS HUB, which provides two-way communication compliant to USB 1.1 specifications at higher data rates (up to 1,5 Mbps). The USB connection is provided through a USB-A USB-B cable. Serial port selection is made through configuration of jumpers on the motherboard.

Power supply inputs

The EVK2 is equipped with different power supply inputs enabling its use in the following environments:

- Automotive setup:
5 to 40 Volt supply
- Laboratory setup:
+ 3.8 Volt fixed supply
- Portable setup:
Rechargeable Li-Ion battery pack

General purpose inputs / outputs

With the EVK2, all general purpose inputs/outputs are made accessible on the adapter boards by a set of pins on the PTH-type connector.

This allows developers to build their own interface boards best suited for their requirements, e.g. custom connectors, cables, relays, LEDs, etc.

Power supply	Automotive setup: 5 to 40 Volt supply
	Laboratory setup: from + 3.8 Volt fixed supply
	Portable setup: rechargeable Li-Ion battery pack
RESET & power ON button	Yes
Battery charger control	From Telit module
OV protection	On all input DC lines
Reverse polarity protection	On all input DC lines
LED indicator	2
SIM card holder	Yes
GPIO	Yes (all available on the interface board)
Serial ports	2 x RS-232 or 2 x USB 1.1
Mute control	Automatic
Speaker output	2 output power options: Option 1 - max 10mW / 16 Ω on standard 2.5 mm headset socket
	Option 2 - max 675mW / 8 Ω on PTH pin connector
Microphone lines	1x Single-ended (INT/EXT)
Earpiece output	1x Single-ended (INT/EXT) max 10mW/16 Ω

Order No.

Model	P/N	GSM Engine
EVK2	3 990 150 463	-
GM862 Interface	3 990 250 670	-
GE863-PY Interface	3 990 250 669	GE863-PY
GE863-GPS Interface	3 990 250 671	GE863-GPS
GE864-PY Interface	3 990 250 672	GE864-PY
GC864 Interface	3 990 250 680	-
UC864 Interface	-	-
CC864-DUAL Interface	-	-

