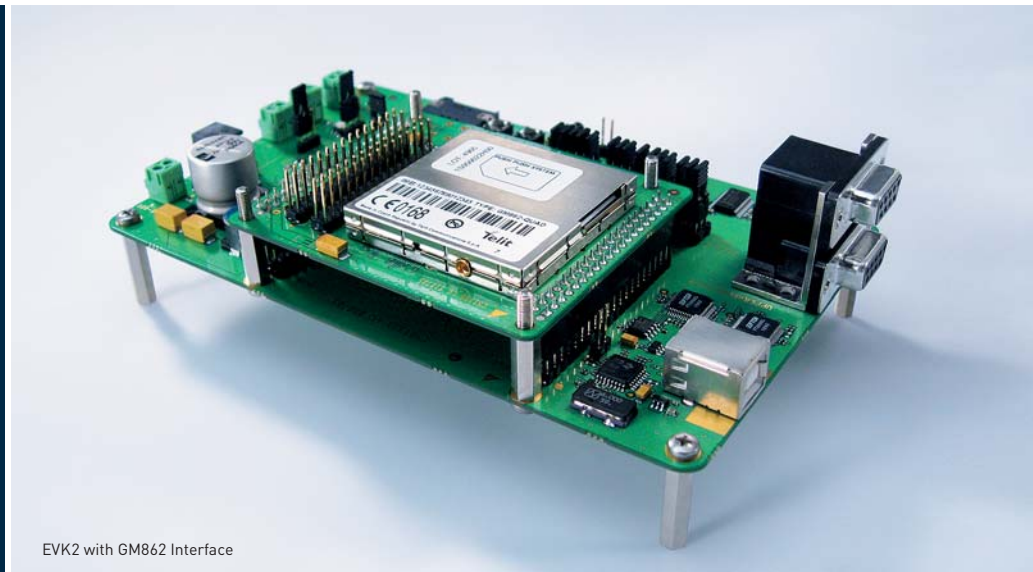


Evaluation Kit EVK2

for Telit GSM/GPRS-Modules



EVK2 with GM862 Interface



EVK2 with GE863 Interface



EVK2 with GE864 Interface

The Telit Evaluation Kit EVK2 provides a ready, future-proof and flexible environment for a quick and easy development of applications with Telit's GSM/GPRS Modules families, dramatically reducing the time-to-market.

The kit is formed by a motherboard, on top of which an adapter board with the related module is plugged. This concept allows using it across the boundaries of various form factors and product generations, also in future.

On the motherboard are placed all basic interfaces, like several power input facilities, SIM holder, audio monitor outputs, 2 x RS232 and USB 1.1, as well as Reset and ON keys, representing a reference design for this peripheral circuitry of the module. Jumper settings define the routing of the serial interfaces, audio signals and power supply. The PC or DTE sending and receiving information over the AT-Command interface can be connected to a USB or RS232 socket.

Adapter boards convert the connection technology of the module (board-to-board or BGA solder) into a PTH pin connector. The part of the basic interfaces is served by the motherboard, whereas specific interfaces according to the type of the module (antenna, general purpose inputs/outputs (GPIO), ADC/DAC, UART etc.) are available on the adapter board to connect to the user's application, extension boards or other development tools or measurement equipment.

An extension board allow connecting a VGA Camera component which is directly supported by the Telit modules is available.

The Telit EVK2 is a tool for:

- ▣ Developing applications: based on actual and future Telit GSM/ GPRS Modules (cellular modems) by means of AT commands through the serial ports
- ▣ Easy programming and updating: of all Telit Modules
- ▣ Debugging Telit Module applications
- ▣ Implementing simple applications (stand alone function) by executing a script over a Python interpreter without any external microprocessor

Making machines talk.

Evaluation Kit EVK2

for GSM/GPRS-Modules

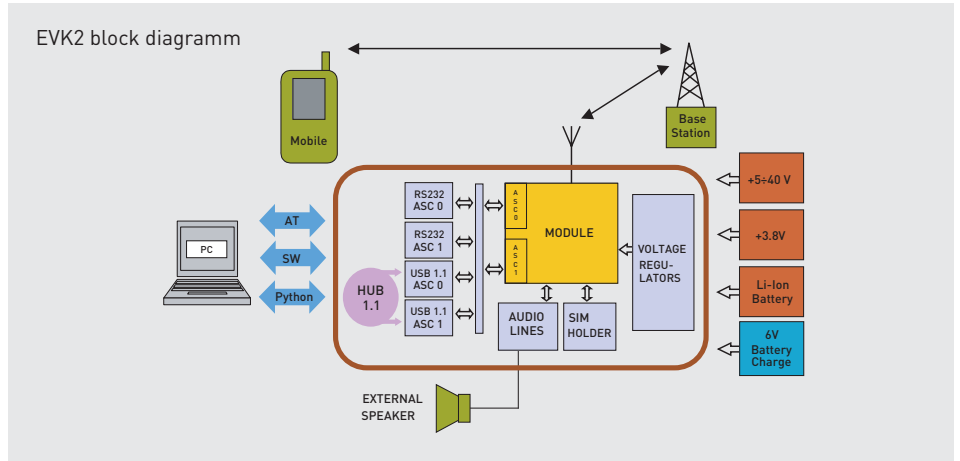


accessories included in the EVK2



Telit wireless solutions

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



RS232 / USB 1.1 Serial Ports

The communication between the application and the Telit module is achieved by connecting the Asynchronous Serial Interfaces (ASC0 and ASC1), through a double stacked standard DB9 connector, that provides 2 serial communication paths (RS232 protocol, up to 115 Kbit/sec).

As alternative a CMOS HUB, that provides two-way communication in compliance with USB 1.1 specification at higher data rates (up to 1,5Mbytes/sec) is available. The USB connection is provided by a USB-A USB-B cable.

The serial port selection is made by jumpers.

Power Supply Inputs

The EVK2 disposes of different Power Supply Inputs which allow using it in the following environments:

- ▣ Automotive setup: from 5 ÷ 40 Volt source
- ▣ Laboratory setup: from + 3.8 Volt fixed source
- ▣ Portable setup: from 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 respective number of pins on the PTH-type connector.

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

Power Supply

Automotive setup:
from 5÷40 Volt source

Laboratory setup: from
+3.8 Volt fixed source

Portable setup: from
rechargeable Li-Ion battery pack

RESET &
Power ON Button

YES

Battery Charger
Control

From Telit Module

Fuse 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 RS232 or 2 x USB 1.1

Mute Control

Automatic

SPEAKER Output

2 Output power options:
max 10mW/16Ω on
standard 2,5 mm headset socket
max 675mW/8Ω on PTH
pin connector

Microphone Lines

1x SingleEnded (INT/EXT)

EARPIECE Output

1x SingleEnded (INT/EXT) max
10mW/16Ω 1.

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	-
Camera Board	3 990 250 673	-