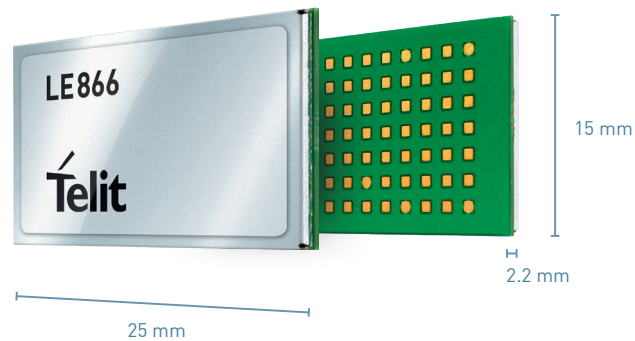


LE866 Series

LTE 10/5 Embedded



Product Description

The LE866 is the smallest LTE module in the market. With its ultra compact 15 x 25 mm LGA footprint, it is designed for applications with severe space constraints, such as wearables.

The LE866 is an LTE UE Category 1 device with maximum downlink data rate of 10 Mbps and maximum uplink data rate of 5 Mbps. LTE Cat.1 devices provide significant reductions in cost, size and power consumption compared to the traditional high Category LTE devices. These advantages make the LE866 the perfect platform to enable the quick implementation of the LTE technology in the Internet of Things, particularly in machine-to-machine (M2M), where low cost and low power are more relevant than high speed.

The LE866 is a dual band LTE communication product for deployment in the new 4G network of Verizon Wireless in the USA. It is highly recommended for new designs in particular for those that need to replace old GPRS or CDMA devices to count on availability for even the longest lifecycle applications.

Key Benefits

- Design once and deploy globally, thanks to the xE866 form factor family
- Very small LGA package is ideally suited for low profile integrated solutions, limited real estate application boards, reducing cost in high-volume applications, as well as saving space and weight in portable devices
- Perfect platform for regional m2m applications such as smart metering, security & surveillance, point of sales, health monitoring, fleet management, asset tracking and wearable devices

Family Concept

The xE866 nested family includes pin-to-pin compatible 2G and 3G modules – the GE866 and the UE866 respectively – making it another pillar of the concept “design once and deploy globally”. It enables integrators to develop a single PCB layout for 2G, 3G and 4G technologies.

AVAILABLE FOR

EMEA
 North America
 Latin America
 APAC
 Africa
 Russia

Combine your Cellular module with

Short Range modules



GNSS modules



www.telit.com

Complete, Ready to Use Access to the Internet of Things



LE866 Series

Product Features

Supported bands:

- LE866-SV1 (North America, 4G-only)
 - Dual band LTE B4/B13
- Rx Diversity
- LTE UE Category 1
- 3GPP release 9 compliant
- Control via AT commands according to 3GPP TS27.005, 27.007 and customized AT commands
- Serial port multiplexer 3GPP TS27.010
- SIM application Tool Kit 3GPP TS 51.01
- SMS
- IPv4/IPv6 stack with TCP and UDP protocol
- SSL

Data

LTE Category 1

- Uplink up to 5 Mbps
- Downlink up to 10 Mbps

Physical & Environmental

- Small dimensions 15 x 25 x 2.2 mm
- Extended temperature range: -40 +85 °C

Interfaces

- 7 I/O ports maximum including multifunctional I/Os
- USB 2.0 HS
- 2 UART
- SPI
- I2C
- 1.8 V SIM interface

Approvals

- FCC, GCF
- Carrier approval (Verizon)

Electrical

- Output power
 - Class 3 (0.2 W, 23 dBm) @ LTE
- Supply voltage
 - Nominal: 3.8 VDC



Join the Telit Technical Forum

For a quicker and more rewarding integration experience join the Telit Technical Forum. There you can browse the first open forum covering all IoT topics, get direct support by region (EMEA, North America, Latin America, APAC), take part in this quickly growing IoT community and exchange experiences.