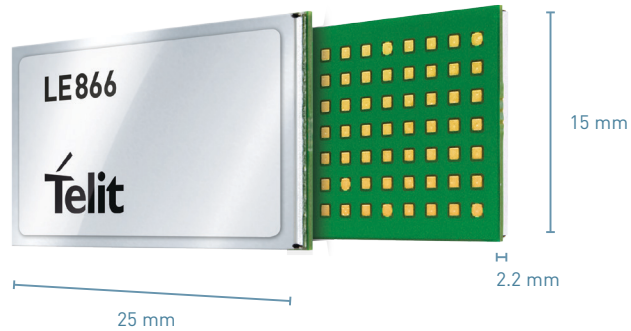


LE866 Series

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 rates of 10 Mbps and maximum uplink data rates 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 Series includes several regional variants: dual band versions for deployment in the new 4G networks of Verizon Wireless in the USA, Korea Telecom and Softbank in Japan and a tri band version for AT&T and T-Mobile in the USA. Those products are 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 life-cycle applications.

Key Benefits

- Design once and deploy globally, with the swappable xE866 form factor family
- Compact 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.

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IoT MODULES



IoT CONNECTIVITY



IoT PORTAL

	LE866-SV1	LE866A1-NA	LE866A1-KK	LE866A1-JS
Market	North America (Verizon)	North America (AT&T, T-Mobile)	Korea (Korea Telecom)	Japan (Softbank)
4G bands (MHz)	B4(AWS1700) B13(700)	B2(1900) B4(AWS1700) B12(700)	B3(1800) B8(900)	B1(2100) B8(900)
Approvals	FCC/IC, GCF Verizon	FCC/IC, PTCRB AT&T	KC KT	JATE/TELEC Softbank

LE866 Series

Product Features

- Rx Diversity (optional Single RX operation)
- 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 to +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

Electrical

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



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