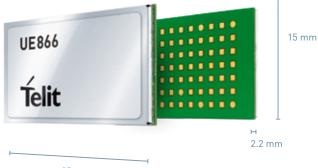# Telit

UE866 Series

UMTS| HSPA 7.2/5.76 Embedded

15 mm

2.2 mm

25 mm

Product Description

The UE866 is the smallest module in Telit's 3G portfolio. With its ultra compact 15 x 25 mm LGA footprint, it is designed for applications with severe space constraints. It is an UMTS | HSPA communication product based on the market's latest 3G core. The N3G for North America is 3G-only and ideal for upgrades from 2G networks. The EU variant features dual-band 3G configuration with 2G fallback.

The series offers voice and data capabilities and can be easily integrated into applications with other Telit GNSS modules. Bundle options include the Telit GNSS micro modules for location based connected devices.

Key Benefits

- Design once and deploy globally, with the xE866 pin-to-pin compatible form factor family
- Compact LGA package is ideally suited for low profile integrated solutions with limited space constraints, reducing costs, in addition to decreasing weight in portable devices
- Ideal platform for regional applications such as telematics and UBI applications, fleet management, asset tracking and wearable devices
- Voice capable variants for applications requiring voice communications
- Over the air firmware update

Family Concept

The xE866 nested family includes pin-to-pin compatible 2G module – the GE866 – and 4G devices - the LE866 series, 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.

Telit IoT LOCATE

This product supports IoT LOCATE, a Telit portal-based service that provides a device's position based on observed cellular Cell-IDs. Accessing a database of over 40 million-cell-IDs globally, IoT LOCATE can provide a position for every use-case including indoors/underground, outdoors, and boundary situations.

IoT Connectivity Ready

This product is capable of supporting the extensive suite of Value Added Services from IoT Connectivity including Module Management and others which make the management of IoT deployments under mobile networks effective, enhancing profitability and reliability. It is also Portal-ready which means that the AT command library in this module includes a set of high-level commands designed exclusively for quick and hassle-free on-boarding of the device to the portal and to back-end systems and servers. Telit Portal-ready modules powered by deviceWISE make application-level data flows and controls simple to program, maintain and improve.

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

IoT MODULES   IoT CONNECTIVITY   IoT PLATFORM

ENABLING THE IOT IS WHAT WE DO.

UE866 Series

Product Features

Supported bands:

- UE866-N3G (North America, 3G-only)
  - Dual band UMTS | HSPA 850/1900 MHz
- UE866-EU (EMEA/APAC)
  - dual band UMTS|HSPA 900/2100 MHz
  - dual band GSM|GPRS 900/1800 MHz
- 3GPP release 7 compliant
- Control via AT commands according to 3GPP TS27.005, 27.007 and customized AT commands
- Standard and extended AT command set Approvals
- Serial port multiplexer 3GPP TS27.010
- SIM application Tool Kit 3GPP TS 51.01
- Built in UDP/TCP/FTP/SMTP stack
- Digital voice and SMS
- IP stack with TCP and UDP protocol

Data

HSPA

- Uplink up to 5.76 Mbps
- Downlink up to 7.2 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
- I2S for digital audio interface
- USB 2.0 HS
- 2 UART
- SPI
- I2C
- 1.8 V / 3 V SIM interface

Approvals

- RoHS Compliant
- FCC, PTCRB, IC (N3G variant)
- CE/GCF (EU variant)

Electrical

- Output power
  - Class 3 (0.25 W, 24 dBm) @ UMTS
- Supply voltage
  - Nominal: 3.8 VDC
  - Range: 3.4 - 4.2 VDC

AppZone application resources

- Programming language C
- IDE: Eclipse
- Compiler: ARM or GCC
- Dedicated File System: 5 MB
- Separate App. RAM Space: 2 MB

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.