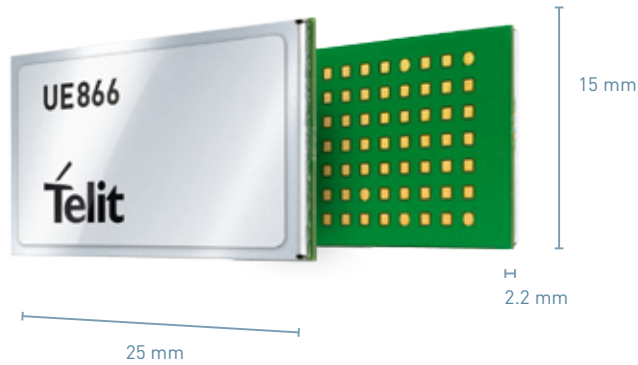


UE866 Series

UMTS | HSPA 7.2/5.76 Embedded



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 which allows integrators to plan count on availability for even the longest lifecycle applications. The N3G for North America is 3G-only and highly recommended for new designs since 2G networks is no longer required. The EU variant is instead featuring dual-band 3G configuration with dual-band 2G fallback.

The series offers voice and data capabilities and can be easily designed into the application with Telit GNSS modules. Bundle options with Telit GNSS modules for ultra-miniature location-aware connected devices.

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 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



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

[02.2016]

Telit reserves all rights to this document and the information contained herein. Products, names, logos and designs described herein may in whole or in part be subject to intellectual property rights. The information contained herein is provided "as is". No warranty of any kind, either express or implied, is made in relation to the accuracy, reliability, fitness for a particular purpose or content of this document. This document may be revised by Telit at any time. For most recent documents, please visit www.telit.com
Copyright © 2016, Telit
* Copyright © 1990-2016, Python Software Foundation



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.

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

Telit Wireless Solutions Inc.
3131 RDU Center Drive, Suite 135
Morrisville, NC 27560, USA
Phone +1 888 846 9773 or +1 919 439 7977
Fax +1 888 846 9774 or +1 919 840 0337
E-Mail NORTHAMERICA@telit.com

Telit Wireless Solutions Inc.
Rua Paes Leme, 524, Conj. 126
05424-101, Pinheiros
São Paulo-SP-Brazil
Phone +55 11 3031 5051
Fax +55 11 3031 5051
E-Mail LATINAMERICA@telit.com

Telit Wireless Solutions Co., Ltd.
8th FL., Shinyoung Securities Bld.
6, Gukjegeumyung-ro8-gil, Yeongdeungpo-gu
Seoul, 150-884, Korea
Phone +82 2 368 4600
Fax +82 2 368 4606
E-Mail APAC@telit.com

www.telit.com

- www.telit.com/techforum
- www.telit.com/facebook
- www.twitter.com/Telit_Corp