



UMTS | HSPA 7.2/5.76 Embedde



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 a dual band 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. It is highly recommended for new designs particularly for deployments where the 2G networks are no longer required. It 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 UE866 nested family includes pin-to-pin compatible 2G modules – the GE866 – making it another pillar of the concept "design once and deploy globally". It enables integrators to develop a single PCB layout for 2G and 3G technologies.

mzm

Telit m2mL0CATE

This product supports m2mLOCATE, a Telit cloud-based service that provides a device's position based on observed cellular Cell-IDs.

Accessing a database of over 40 million cell-IDs globally, m2mL0CATE can provide a position for every use-case including indoors/underground, outdoors, and boundary situations.

m2mAIR Mobile and Cloud Ready

This product is capable of supporting the extensive suite of Value Added Services from m2mAIR Mobile including Module Management and others which make the management of m2m deployments under mobile networks effective, enhancing profitability and reliability. It is also Cloud-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 cloud and to back-end systems and servers. Telit Cloud-ready modules powered by deviceWISE make application-level data flows and controls simple to program, maintain and improve.

AVAILABLE FOR

- EMEA
- North America
- AFAC
- Africa
- Russia

Click-to-Cloud – with Powerfull AT Commands



Combine your **Cellular** module with



• GNSS modules

www.telit.com

Complete, Ready to Use Access to the Internet of Things



Telit Modules + m2mAIR Mobile Value-Added Services including Connectivity



ONE STOP. ONE SHOP. NOW, INNOVATE!



	UE866 -N3G	UE866 -E3G
Market	North America	EMEA / APAC
HSPA+ Upload (Mbps)	5.76	5.76
HSPA+ Download (Mbps)	7.2	7.2
Frequencies		
UMTS HSPA+ bands (MHz)	850, 1900	900, 2100
Features		
Data	0	0
Voice	۰	٠

UE866 Series

Product Features

Supported bands:

- N3G variants: - 2 Bands UMTS HSPA 850/1900 MHz
- E3G variant:
- 2 Bands UMTS HSPA 900/2100 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 category 6 in uplink and up to category 8 in downlink

- Uplink up to 5.76 Mbps
- Downlink up to 7.2 Mbps

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[10.2014]

• Uplink/Downlink up to 384 kbps

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
- I2S for digital audio interface
- USB 2.0 HS, HSIC
- 2 UART
- SPI
- I2C
- 1.8 V / 3 V SIM interface

Approvals

- RoHS Compliant
- CE, GCF (Europe)
- FCC, PTCRB, IC (North America)

Electrical

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

Software and Application Development

- Python* version = 2.7.2
- Python* script interpreter (module takes the application code directly in the Python* language)
- Memory: 2MB of NV memory for the user scripts and 2 MB RAM for the Python engine usage

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 m2m topics, get direct support by region (EMEA, North America, Latin America, APAC), take part in this quickly growing m2m 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 +39 040 4192 383 Fax F-Mail FMFA@telit.com

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

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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

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