

# DATA SHEET TELIT NE866B1-E1 WIRELESS MODULE

## KEY BENEFITS

Design once and deploy globally, thanks to xE866 form factor family
Very small LGA package ideally suited for low profile integrated solutions, limited real estate application boards
Perfect platform for regional IoT applications such as smart metering, security & surveillance, POS, health monitoring, fleet management, asset tracking and wearables
Minimum power consumption and extended coverage
Embedded UDP/IP stack

## NETWORK

<b>3GPP Protocol Stack Compliance</b>	Release 13
<b>Support for TS.34 IoT Communication Efficiency</b>	None
<b>Wireless Protocol Support</b>	
2G/GPRS	None
3G/UMTS	None
4G/LTE	None
NB-IoT	Supported
<b>Frequency Band Support</b>	
2G Bands (MHz)	None
3G Bands (MHz)	None
4G Bands (MHz)	None
NB-IoT Bands (MHz)	800, 900
<b>3GPP Classes / Categories</b>	
CSD	None
GPRS Multislot Class (DL/UL)	None
EDGE Class (DL/UL)	None
HSDPA Category (DL)	None
HSUPA Category (UL)	None
LTE Category	None
NB-IoT Category	NB1
<b>Short Message Service (SMS)</b>	Text, PDU
<b>Speech Codecs</b>	None
<b>Firmware Updates</b>	UART, LWM2M
<b>Integrated Positioning Technology</b>	
GPS	None
GLONASS	None
Control Plane A-GPS Support	None
SUPL A-GPS Support	None
<b>Regulatory</b>	

eCall	None
Standalone / Assisted GNSS	None
TTY	None

## HARDWARE

Dimensions (L x W x H, mm)	15.0 x 19.0 x 2.2
Weight (g)	1,5
Operating Temperature - Extended Operation (°C)	-40 to +85
Supply Voltage Range (V)	3.1 - 4.2

## Interfaces

USB 2.0 (480 Mbps)	None
ASC0 HS Serial Modem	None
GPIO Lines	Supported
UICC and U/SIM (1.8 V/3 V)	1.8 V
ADC and I2C	ADC
Serial Interfaces 1.8 V (including automatic baud rate detection)	None
Digital Audio, prepared for Analog Audio	None

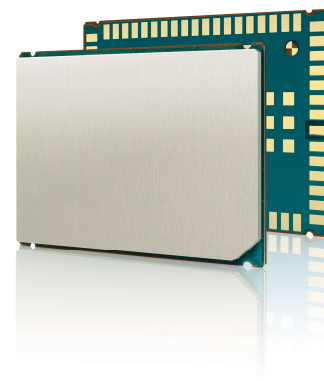


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## CERTIFICATION DETAILS

GMA Certification	None
Deutsche Telekom Certification Date (Initial Firmware)	29.00.012
Certified Deutsche Telekom Affiliates	AT, CZ, DE, HR, NL, PL, SK
Certifying Entity	DTAG ITS-IVA
DT Certification Type (Conditions)	<b>Full</b>
<b>Deutsche Telekom Affiliate Country Codes</b>	
AL	Telekom Albania
AT	T-Mobile Austria GmbH
CZ	T-Mobile Czech Republic a.s.
DE	Telekom Deutschland GmbH
GR	COSMOTE Mobile Telecommunications S.A.
HR	Hrvatski Telekom d.d.
HU	Magyar Telekom Telecommunications plc
ME	Cmogrski Telekom a.d. Podgorica
MK	Makedonski Telekom AD – Skopje
NL	T-Mobile Netherlands B.B.
PL	T-Mobile Polska S.A.
RO	Telekom Romania Mobile Communications S.A.
SK	Slovak Telekom, a.s.



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