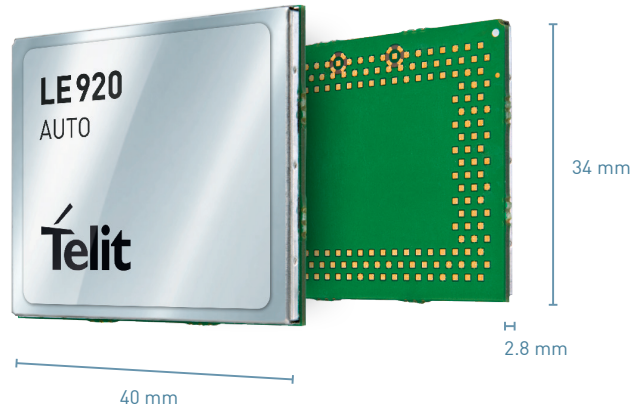


LE920 Series AUTO

LTE 100/50 | DC-HSPA+ 42.0/5.76 Embedded



Product Description

The LE920 is part of Telit's xE920 form factor family conceived to address stringent requirements in the areas of quality assurance and traceability as well as extended environmental tolerance for OEM automotive and harsh environment application areas.

The LE920 Series combines two high-speed cellular modes: LTE delivering 100 Mbps downlink and 50 Mbps uplink data rates and full fallback compatibility with HSPA+ delivering up to 42 Mbs downlink and 5.76 Mbps uplink rates. With 2.5G quad-band support, the LE920 is also fully backward-compatible with existing EDGE and GSM | GPRS networks to ensure that it can connect even in remote areas devoid of 4G or 3G coverage.

The Series was developed and manufactured according to ISO TS16949 processes to be compliant with supply-chain requirements from OEM automotive, IT, and other multi-tier supply chain electronics manufacturing segments. It is offered in an LGA package conceived for increased robustness and as a cost effective mounting solution.

The LE920 Series is comprised of band-combination variants designed to address regional market requirements for North America and Europe.

Key Benefits

- ISO TS16949 compliant
- GNSS receiver available for applications requiring fast and accurate fixes in any environment
- Two regional variants covering different groups of LTE and HSPA bands
- Design once and select between 4G LTE and HSPA pin-compatible products.

Family Concept

The xE920 family is Telit's new generation of automotive grade modules in HSPA+ and LTE cellular technologies. The 34 x 40 mm, 198-pad LGA package is a ruggedized module ideal for the most demanding applications and environments.

In addition, xE920 modules are designed and manufactured according to ISO TS16949 processes to ensure quality and suitability for OEM applications requiring this certification.

AVAILABLE FOR

- EMEA
- North America
- Latin America
- APAC
- Korea
- Australia

Combine your Cellular module with

Short Range modules



www.telit.com

Complete, Ready to Use Access to the Internet of Things



LE920-EUG
LE920-NAG

Market	EMEA / APAC / Latin America	North America
HSPA+ Upload (Mbps)	5.76	5.76
HSPA+ Download (Mbps)	42.0	42.0
LTE Upload (Mbps)	50	50
LTE Download (Mbps)	100	100

Frequencies

LTE bands (MHz)	2100 (B1) / 1800 (B3) / 2600 (B7) / 900 (B8) / 800 (B20)	2100 (B1) / 1900 (B2) / AWS1700 (B4) / 850 (B5) / 700 (B17)
UMTS HSPA+ bands (MHz)	2100 (B1) / 1800 (B3) / 900 (B8)	2100 (B1) / 1900 (B2) / AWS1700 (B4) / 850 (B5) / 800 (B6)

Features

GSM GPRS EDGE Quad-band	•	•
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LE920 Series

AUTO

Product Features

Supported frequencies

- GSM | GPRS | EDGE:
850, 900, 1800, 1900 MHz
- UMTS|HSPA+:
900, 1800, 2100 MHz (EUG)
800/850, AWS1700, 1900, 2100 (NAG)
- LTE:
800, 900, 1800, 2100, 2600 MHz (EUG)
700, 850, AWS1700, 1900, 2100 MHz (NAG)
- Quad Band GPRS and EDGE class 10
- Embedded GPS /Glonass Receiver
- Rx Diversity
- Manufactured under TS16949 Quality specifications
- SIM Access Profile
- 3GPP release 9 compliant
- SIM application Tool Kits 3GPP TS 51.014
- Digital voice
- Analog voice (optional embedded codec)
- IP stack with TCP and UDP protocol
- Standard and extended AT command set
- e-Call compliant

Data

LTE

- Uplink up to 50 Mbps
- Downlink up to 100 Mbps

HSPA+

- Uplink up to 5.76 Mbps
- Downlink up to 42.0 Mbps

UMTS

- Uplink/Downlink up to 384 kbps

EDGE

- Uplink/Downlink up to 236 kbps

GPRS

- Uplink/Downlink up to 85.6 kbps

CSD

Environmental

- Dimensions 34 x 40 x 2.8 mm
- Temperature Range
-40°C to +85°C
-40°C to +90°C (storage)

Interfaces

- 198-pin LGA Interface
- 10 I/O ports maximum including multifunctional I/Os

- USB 2.0 HS
- 2 UART
- 1.8 V / 3 V SIM interface
- RF pad, RX Diversity pad, GPS/Glonass Antenna pad

Approvals

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

Electrical & Sensitivity

- Output power
 - Class 4 (2 W, 33 dBm) @ GSM 850 / 900
 - Class 1 (1 W, 30 dBm) @ GSM 1800 /1900
 - Class E2 (0.5 W, 27 dBm) @ EDGE 850 / 900
 - Class E2 (0.4 W, 26 dBm) @ EDGE 1800/1900
 - Class 3 (0.25 W, 24 dBm) @ UMTS
 - Class 3 (0.2 W, 23 dBm) @ LTE
- Supply voltage
 - Nominal: 3.8 VDC
 - Range: 3.4 - 4.2 VDC
- Extended temperature range
 - 40°C to +85°C (operational)
 - 40°C to +85°C (storage temperature)



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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.