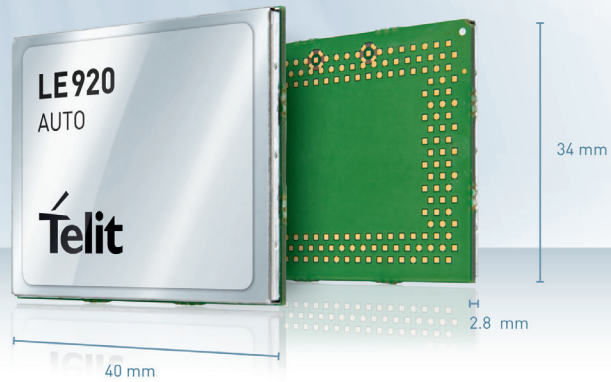


● ● **LE 920 Series**  
AUTO

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 100Mbps downlink and 50Mbps uplink data rates and full fallback compatibility with HSPA+ delivering up to 42Mbps downlink and 5.76Mbps 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 34x40 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 
- GNSS modules 

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ONE STOP.  
ONE SHOP. NOW, INNOVATE!



# LE920 Series AUTO

	LE920-EUG	LE920-NAG
Market	EMEA/APAC/Latin America	North America
GSM/GPRS/EDGE Quad band	●	●
<b>HSPA+</b>		
Upload Mbps	5.76	5.76
Download Mbps	42.0	42.0
Frequencies MHz (Band)	2100(B1) / 1800(B3) / 900(B8)	2100(B1) / 1900(B2) / AWS1700(B4) / 850(B5) / 800(B6)
<b>LTE</b>		
Upload Mbps	50	50
Download Mbps	100	100
Frequencies MHz (Band)	2100(B1) / 1800(B3) / 2600(B7) / 900(B8) / 800(B20)	2100(B1) / 1900(B2) / AWS1700(B4) / 850(B5) / 700(B17)

## Product features

- Supported frequencies
  - GSM / GPRS / EDGE: 850 , 900 , 1800 , 1900 MHz
  - UMTS/HSPA+: 900, 1800, 2100 MHz (EUG) 800/850, ASW1700, 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



## 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.