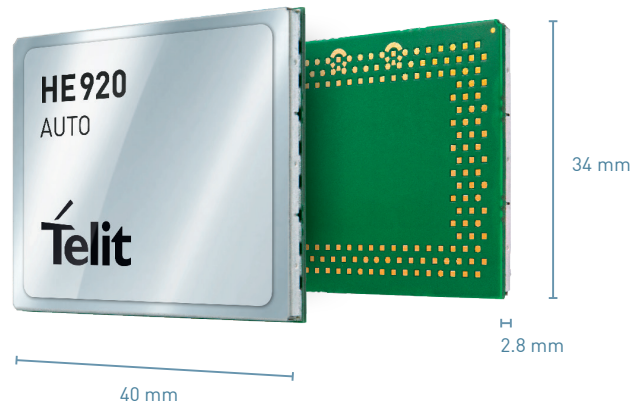


HE920 Series AUTO

UMTS | HSPA+ 14.4/5.76 Embedded



Product Description

The HE920 Series AUTO is part of the xE920, LGA form factor family conceived primarily for OEM and aftermarket automotive applications. It is a 3.5G module offering high-speed HSPA connectivity, ideally suited for automotive use and other demanding applications for harsh environments requiring assured extended operating temperature range and mechanical ruggedness.

The form factor includes a compatible LTE companion product, the LE920. Application of the HE920 ensures an easy and cost minimized migration to 4G LTE when you are ready to update from HSPA or to augment your offering with both technologies.

An optional GNSS receiver is available for applications requiring fast and accurate fixes in any environment.

Key Benefits

- ISO TS16949 compliant
- Optional GNSS receiver available for applications requiring fast and accurate fixes in any environment
- Two regional variants, covering different groups of HSPA bands
- Cost minimized migration to 4G LTE when you are ready to update from HSPA

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



GNSS
modules



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Complete, Ready to Use Access to the Internet of Things



IoT MODULES



IoT CONNECTIVITY



IoT PORTAL

HE920-EU

HE920-NA

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

Frequencies

UMTS HSPA+ 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	•	•
Rx Diversity	•	•
Data	•	•
Voice	•	•
GNSS	•	•

HE920 Series

AUTO

Product Features

- HSPA 14.4 Mbps
- UMTS | HSPA (WCDMA / FDD):
 - @ 850 / 900 / 2100 (EU)
 - @ 850 / 1700 / 1900 (NA)
- Quad-band EGSM 850 / 900 / 1800 / 1900
- GPRS multi-slot class 12
- EDGE multi-slot class 12
- Manufactured under TS16949 Quality
- Specifications
- RX Diversity
- Voice and SMS
- Remote SIM Access
- TCP stack with IP and UDP protocols
- Standard and extended AT command set
- Various operating system drivers
- 3GPP release 7 compliant
- Control via AT commands according to 3GPP TS27.005, 27.007 and customized Telit
- AT commands
- Serial port multiplexer 3GPP TS27.010

WCDMA

- Downlink/uplink up to 384 kbps

EDGE

- Downlink up to 236.8 kbps
- Uplink up to 236.8 kbps

GPRS

- Downlink up to 85.6 kbps
- Uplink up to 85.6 kbps
- PBCCH support

CSD

Environmental

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

Optional GPS | GLONASS Receiver

- Available with optional GPS/GLONASS receiver

Interfaces

- 198-pin LGA Interface
- 1.8 / 3V UICC SIM card interface
- Digital and Analog Audio, GPIOs, 1 D/A and 2 A/D converters

- USB 2.0 HS OTG interface
- RF pad, RX Diversity pad, GPS | Glonass Antenna pad
- USB, UART

Approvals

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

Electrical & Sensitivity

- Output power
 - Class 4 [2 W, 33 dBm] @ GSM 850 / 900
 - Class 1 [1 W, 30 dBm] @ GSM 1800 / 1900
 - Class 3 [0.25 W, 24 dBm] @ UMTS
 - Class E2 [0.5 W, 27 dBm] @ EDGE 850 / 900
 - Class E2 [0.4 W, 26 dBm] @ EDGE 1800/1900
- Supply voltage
 - Nominal: 3.8 VDC
 - Range: 3.4 - 4.2 VDCs

Data

HSPA

- Downlink up to 14.4 Mbps
- Uplink up to 5.76 Mbps



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.