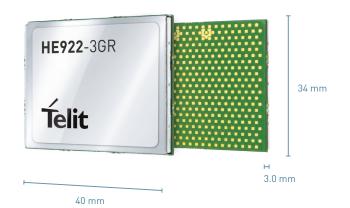


WE922-3GR **HE922**-3GR



Product Description

The WE922-3GR and HE922-3GR allow you to add the user-friendliness of a tablet to your next Internet of things (IoT) device, easily. They are the world's first hybrid IoT modules that combine 3G Cellular, Wi-Fi, Bluetooth and GNSS into a single package. The HE922-3GR and WE922-3GR smart modules are also the first to use the Intel® Atom™ x3 SoC Processor technology with a 64-bit, quad-core processing engine and comprehensive I/O resources. With the functionality and integration resources in these compact sized modules, developers can implement a user-friendly, touch-screen equipped IoT connected device prototype in a matter of weeks.

Variants

These two products fulfill the requirements of European, North American and Asian markets. The multi-band configuration of the HE922-3GR covers different 3G/2G bands as well as MNO certifications.

Key Benefits

- Certified modules with integrated connectivity features: Wi-Fi + Bluetooth + GNSS + Optional 3G/2G Cellular
- Atom x3 Quad-Core processor
- Android Marshmallow/Yocto Linux for easy application development
- Easy integration to build IoT platform solutions
- Support multiple bands for a worldwide deployment
- Security features (virtualization, secure VM, secure boot)
- Internal application processor reduces device BOM
- Industrial-grade operating temperature range

AVAILABLE FOR

EMEA

North America

Latin America APAC

Australia

Complete, Ready to Use Access to the Internet of Things

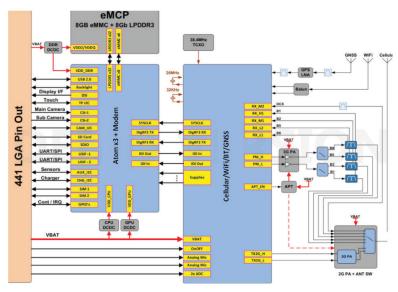








Module Hardware Architecture





	WE922-3GR	HE922-3GR
Market	EMEA, North America, APAC	EMEA, North America, APAC
Processor	Quad-Core Atom x3 64 bit @ 1.2GHz	Quad-Core Atom x3 64 bit @ 1.2GHz
3G bands (MHz)	•	800 / 900 / 1900 / 2100
2G bands (MHz)	•	Quad band (850 / 900 / 1800 / 1900)
Wi-Fi	Wi-Fi 802.11 b/g/n 2.4 GHz	Wi-Fi 802.11 b/g/n 2.4GHz
Cellular data throughput	•	HSPA+: DL: 21 Mbps UL: 5.76 Mbps
Bluetooth	BT 4.0 LE	BT 4.0 LE
GNSS	GPS, Glonass	GPS, Glonass
Operating temperature	commercial: 0°C to +70°C extended: -40°C to +85°C	commercial: 0°C to +70°C extended: -40°C to +85°C
Supply Voltage	3.6 V to 4.2 V (Typ. 3.8 V)	3.6 V to 4.2 V (Typ. 3.8 V)
GPI0	15	15
0S	Android Marshmallow or Yocto Linux	Android Marshmallow or Yocto Linux
USB	2.0, OTG support	2.0, OTG support
UART	x2	x2
SPI	x2	x2
I2C	YES	YES
SDIO	1 for SD card	1 for SD card
Dimensions	34 x 40 x 3.0mm	34 x 40 x 3.0mm
Certifications	GCF, PTCRB, FCC, IC, CE, WPC Wi-Fi & BT certifications	GCF, PTCRB, FCC, IC, CE, WPC Carrier Approvals

(WFA, BT Sig)

Wi-Fi & BT certifications (WFA, BT Sig)

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Telit Communications S.p.A. Via Stazione di Prosecco, 5/B I-34010 Sgonico (Trieste), Italy

Phone +39 040 4192 200 Fax +39 040 4192 383 E-Mail EMEA@telit.com

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

E-Mail NORTHAMERICA@telit.com

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



