

# DATA SHEET GEMALTO CINTERION® EHS5-E WIRELESS MODULE

Dual Band HSPA
Multi Design Capability (Land Grid Array - LGA)

## Key Benefits

USB 2.0 High Speed Compatible
Embedded TCP/IP Stack
FOTA Configurable & Free of Charge
Java™ ME 3.2 Embedded
RLS Monitoring (Jamming Detection)
Advanced Temperature Management
eCall/ERA GLONASS Compliant
Bearer Independent Protocol (BIP)
Secure data transmission with HTTPS/SSL

## Network

<b>3GPP Protocol Stack Compliancy</b>	Release 7
<b>Support for TS.34 IoT Communication Efficiency</b>	None
<b>Wireless Protocol Support</b>	
2G/GPRS	Supported
3G/UMTS	Supported
4G/LTE	None
<b>Frequency Band Support</b>	
2G Bands (MHz)	900, 1800
3G Bands (MHz)	900, 2100
4G Bands (MHz)	None
<b>3GPP Classes/Categories</b>	
CSD	V.110 (9.6 kbps)
GPRS Multislot Class (DL/UL)	12 (85.6 kbps, 85.6 kbps)
EDGE Class (DL/UL)	12 (237 kbps, 237 kbps)
HSDPA Category (DL)	8 (7.2 Mbps)
HSUPA Category (UL)	6 (5.76 Mbps)
LTE Category	None

<b>Short Message Service (SMS)</b>	Supported (Text, PDU, Cell Broadcast)
<b>Speech Codexs</b>	FR, HR, EFR, AMR
<b>Firmware Updates</b>	FOTA, USB and serial interface
<b>Positioning Support</b>	
GPS	None
GLONASS	None
Control Plane A-GPS Support	None
SUPL A-GPS Support	None
<b>Regulatory</b>	
eCall	Supported
Standalone/Assisted GNSS	Supported
TTY	Supported

## Hardware

Dimensions (L x W x H, mm)	27.6 x 18.8 x 2.3
Weight (g)	2.7
On-board Memory	10 MB RAM, 10 MB Flash
Operating Temperature - Extended Operation (°C)	-40 °C to +90 °C
Supply Voltage Range (V)	3.1 - 4.5
<b>Interfaces</b>	
USB 2.0 (480 Mbps)	Supported
ASC0 HS Serial Modem	Supported
GPIO Lines	Supported (16)
UICC and U/SIM (1.8 V/3 V)	Supported
Module ON/Reset	Supported
ADC and I2C	Supported
4-Wire HS Serial Interfaces ASC1	Supported
Analog Audio	None
Digital Audio	Supported

## CONTACT

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## Certification Details

GMA Certification	Yes
Deutsche Telekom Certification Date (Initial Firmware)	3.001 (30.11.2016)
Certified Deutsche Telekom Affiliates	AL, AT, CZ, DE, GR, HR, HU, ME, MK, NL, PL, RO, SK
Certifying Entity	DTAG IDU-TIV
DT Certification Type (Conditions)	Full (Limited implementation of DT modem settings requirements)

## Deutsche Telekom Affiliate Country Codes

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	Crnogorski Telekom a.d. Podgorica
MK	Makedonski Telekom AD – Skopje
NL	T-Mobile Netherlands B.V.
PL	T-Mobile Polska S.A.
RO	Telekom Romania Mobile Communications S.A.
SK	Slovak Telekom, a.s.



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