

# DATA SHEET GEMALTO CINTERION® BGS2-E WIRELESS MODULE

## KEY BENEFITS

Low cost device
Compact design (27.6 x 18.8 x 2.7 mm)
Low power consumption
Voice call and SMS (Text/PDU format) support
Supports 3GPP Rel. 99
Extreme operating temperature range -40 °C to +90 °C

## NETWORK

<b>3GPP Protocol Stack Compliance</b>	Release 99
<b>Support for TS.34 IoT Communication Efficiency</b>	None
<b>Wireless Protocol Support</b>	
2G/GPRS	Supported
3G/UMTS	None
4G/LTE	None
NB-IoT	None
<b>Frequency Band Support</b>	
2G Bands (MHz)	900, 1800
3G Bands (MHz)	None
4G Bands (MHz)	None
NB-IoT Bands (MHz)	None
<b>3GPP Classes / Categories</b>	
CSD	Up to 14.4 kbit/s
GPRS Multislot Class (DL/UL)	10 (85.6/42.8) kbit/s
EDGE Class (DL/UL)	None
HSDPA Category (DL)	None
HSUPA Category (UL)	None
LTE Category	None
NB-IoT Category	None
<b>Short Message Service (SMS)</b>	Yes
<b>Speech Codecs</b>	GSM FR; GSM HR; GSM EFR; FR AMR; HR AMR
<b>Firmware Updates</b>	Supported via serial interface
<b>Integrated Positioning Technology</b>	
GPS	None
GLONASS	None
Control Plane A-GPS Support	None
SUPL A-GPS Support	None
<b>Regulatory</b>	

eCall	None
Standalone / Assisted GNSS	None
TTY	Supported

## HARDWARE

Dimensions (L x W x H, mm)	27.6 x 18.8 x 2.7
Weight (g)	-
Operating Temperature – Extended Operation (°C)	-40 °C to +90 °C
Supply Voltage Range (V)	3.3 - 4.5

## Interfaces

USB 2.0 (480 Mbps)	None
ASC0 HS Serial Modem	None
GPIO Lines	None
UICC and U/SIM (1.8 V/3 V)	1.8 V, 3 V
ADC and I2C	Supported
Serial Interfaces 1.8 V (including automatic baud rate detection)	Supported
Digital Audio, prepared for Analog Audio	Supported



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## CERTIFICATION DETAILS

GMA Certification	None
Deutsche Telekom Certification Date (Initial Firmware)	20.09.2019 (V04.030)
Certified Deutsche Telekom Affiliates	AT, CZ, DE, GR, HR, HU, ME, MK, NL, PL, RO, SK
Certifying Entity	DTAG IDU-TIV
DT Certification Type (Conditions)	<b>Limited</b> (Missing L2 Fill-bit randomization in uplink)
<b>Deutsche Telekom Affiliate Country Codes</b>	
AT	Magenta Telekom 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	Cmorgski Telekom a.d. Podgorica
MK	Makedonski Telekom AD – Skopje
NL	T-Mobile Netherlands B.B.
PL	T-Mobile Polska S.A.
RO	Telekom Romania Mobile Communications S.A.
SK	Slovak Telekom, a.s.



## CONTACT

Deutsche Telekom AG  
Friedrich-Ebert-Allee 140  
53113 Bonn  
[iot-device-support@telekom.de](mailto:iot-device-support@telekom.de)



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