

DATA SHEET GEMALTO CINTERION BGS2-W WIRELESS MODULE

KEY BENEFITS

Low power consumption
Extended temperature range of -40 °C to +90 °C
Quad-band 850, 900, 1800, 1900
Compact design (27.6 x 18.8 x 2.7 mm)
Voice call and SMS (Text/PDU format) support

NETWORK

3GPP Protocol Stack Compliancy	Release 99
Support for TS.34 IoT Communication Efficiency	None
Wireless Protocol Support	
2G/GPRS	Supported
3G/UMTS	None
4G/LTE	None
NB-IoT	None
Frequency Band Support	
2G Bands (MHz)	850, 900, 1800, 1900
3G Bands (MHz)	None
4G Bands (MHz)	None
NB-IoT Bands (MHz)	None
3GPP Classes / Categories	
CSD	Up to 14.4 kbps
GPRS Multislot Class (DL/UL)	10 (85.6 kbps, 42.8 kbps)
EDGE Class (DL/UL)	None
HSDPA Category (DL)	None
HSUPA Category (UL)	None
LTE Category	None
NB-IoT Category	None
Short Message Service (SMS)	Text, PDU
Speech Codecs	GSM FR, GSM HR, GSM EFR, FR AMR, HR AMR
Firmware Updates	Via Serial Interface
Integrated Positioning Technology	
GPS	None
GLONASS	None
Control Plane A-GPS Support	None

SUPL A-GPS Support	None
Regulatory	
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)	3
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	6 pins
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

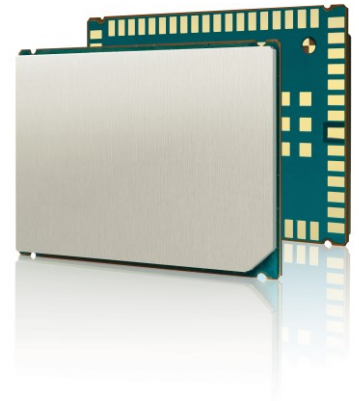


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CERTIFICATION DETAILS

GMA Certification	None
Deutsche Telekom Certification Date (Initial Firmware)	01.08.2018 (v03.001)
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)	Limited (Missing L2 Fill-bit randomization in uplink)
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	Comorgski 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.



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