

DATA SHEET GEMALTO CINTERION® ELS61-E R2 MODULE

KEY BENEFITS

LTE Cat. 1
Incremental firmware update over-the-air
Support IPv6
Extended temperature range of -40 to +85° C
SMS (Text/PDU format) support
Compact design (27.6 x 25.4 x 2.2 mm)

NETWORK

3GPP Protocol Stack Compliancy	Release 9
Support for TS.34 IoT Communication Efficiency	Radio Policy Manager (RPM)
Wireless Protocol Support	
2G/GPRS	Supported
3G/UMTS	Supported
4G/LTE	Supported
NB-IoT	None
Frequency Band Support	
2G Bands (MHz)	900, 1800
3G Bands (MHz)	B1, B8
4G Bands (MHz)	B1, B3, B8, B20, B28
NB-IoT Bands (MHz)	None
3GPP Classes / Categories	
CSD	None
GPRS Multislot Class (DL/UL)	12
EDGE Class (DL/UL)	12
HSDPA Category (DL)	8 (7.2 Mbps)
HSUPA Category (UL)	6 (5.76 Mbps)
LTE Category	1 (10.2 Mbps, 5.2 Mbps)
NB-IoT Category	None
Short Message Service (SMS)	Text, PDU mode
Speech Codecs	GSM FR, GSM HR, GSM EFR, FR AMR, HR AMR
Protocol Support	TCP/IP, UDP, FTP, HTTP, DNS
Firmware Updates	Via USB, ASC and Incremental firmware update over-the-air

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	None

HARDWARE

Dimensions (L x W x H, mm)	27.6 x 25.4 x 2.2
Weight (g)	4
Operating Temperature – Extended Operation (°C)	-40 °C to +95 °C
Supply Voltage Range (V)	3.0 - 4.5
Interfaces	
USB 2.0 (480 Mbps)	Supported
ASC0 HS Serial Modem	Supported
GPIO Lines	Supported
UICC and U/SIM (1.8 V/3 V)	1.8 V, 3 V
I ² C	Supported
Lines for Module-On and Reset	Supported
Pads for RX-Diversity Antenna	Supported
ADC interface	Supported



LIFE IS FOR SHARING.

DATA SHEET GEMALTO CINTERION® ELS61-E R2 MODULE

CERTIFICATION DETAILS

GMA Certification	None
Deutsche Telekom Certification Date (Initial Firmware)	23.08.2019 (02.000)
Certified Deutsche Telekom Affiliates	AT, CZ, DE, GR, HR, HU, ME, MK, NL, PL, RO, SK
Certifying Entity	Deutsche Telekom AG, ITS-IVA
DT Certification Type (Conditions)	Limited (Technical issues to address)
Deutsche Telekom Affiliate Country Codes	
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



LIFE IS FOR SHARING.