

DATA SHEET GEMALTO PHS8-P WIRELESS MODULE

KEY BENEFITS

Thinnest 3G LGA Module in the Market
Five Band 3G
Quad Band 2G
HSPA+
GPRS/EDGE Class 12
Full Voice Support
Embedded TCP/IP Stack
GPS
Extended Temperature Range
USB 2.0
RIL Driver

NETWORK

3GPP Protocol Stack Compliancy	Release 6/7
Support for TS.34 IoT Communication Efficiency	None
Wireless Protocol Support	
2G/GPRS	Supported
3G/UMTS	Supported
4G/LTE	None
Frequency Band Support	
2G Bands (MHz)	850, 900, 1800, 1900
3G Bands (MHz)	800/850, 900, 1900, 2100
4G Bands (MHz)	None
3GPP Classes / Categories	
CSD	V.100 (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)	10 (14.4 Mbps)
HSUPA Category (UL)	6 (5.76 Mbps)
LTE Category	None
Short Message Service (SMS)	Supported (Text, PDU, Phonebook)
Speech Codecs	FR, HR, EFR, AMR
Firmware Updates	USB and serial interface

Integrated Positioning Technology

GPS	Supported
GLONASS	Supported
Control Plane A-GPS Support	Supported
SUPL A-GPS Support	Supported

Regulatory

eCall	Supported
Standalone / Assisted GNSS	Supported
TTY	Supported

HARDWARE

Dimensions (L x W x H, mm)	39 x 33 x 2
Weight (g)	5
On-board Memory	10 MB RAM, 40 MB Flash
Operating Temperature – Extended Operation (°C)	-40 °C to +95 °C
Supply Voltage Range (V)	3.3 – 4.2
Interfaces	
USB 2.0 (480 Mbps)	Supported
ASC0 HS Serial Modem	Supported
GPIO Lines	None
UICC and U/SIM (1.8 V/3 V)	Supported
Module ON/Reset	Supported
ADC and I2C	Supported
4-Wire HS Serial Interfaces SCA1	None
Analog Audio	Supported
Digital Audio	Supported

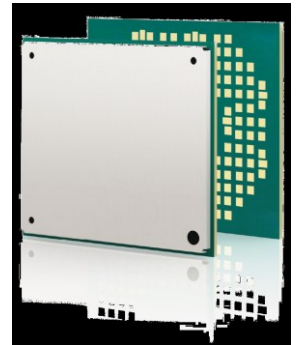


LIFE IS FOR SHARING.

DATA SHEET GEMALTO PHS8-P WIRELESS MODULE

CERTIFICATION DETAILS

GMA Certification	Yes
Deutsche Telekom Certification Date (Initial Firmware)	3.320 (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	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.