



Information on IoT Device or Cellular Module

Type	Cellular module <input type="checkbox"/>	IoT device <input type="checkbox"/>
Module Vendor	<input type="text"/>	IoT device Vendor <input type="text"/>
Module Name	<input type="text"/>	IoT device Name <input type="text"/>
Base Band Chipset Vendor	<input type="text"/>	Embedded module Vendor <input type="text"/>
Chipset Name	<input type="text"/>	Embedded module Name <input type="text"/>
Module Hardware Version	<input type="text"/>	IoT Hardware Version <input type="text"/>
Module Software Version	<input type="text"/>	IoT Software Version <input type="text"/>
3GPP Release	<input type="text"/>	

Shall your product be listed on our homepage? Yes No

Vodafone Innovation Park Reference customers: <https://www.vodafone.de/innovationpark/en/references.html>

Link to your product homepage:

Technical contact person of the customer

	<input type="checkbox"/> Differed for hardware return
Name: <input type="text"/>	Name: <input type="text"/>
Address: <input type="text"/>	Address: <input type="text"/>
Email: <input type="text"/>	Email: <input type="text"/>
Phone: <input type="text"/>	
Company: <input type="text"/>	

Shipping address

Address: Vodafone GmbH
c.o. Roland Schmitz, TFII
Ferdinand-Braun-Platz 1
D40549 Düsseldorf – Germany

Vodafone GmbH

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Supported frequency bands

Area 2,5G

- Band 5–850MHz Band 8–900MHz Band 3–1800MHz Band 25–1900MHz

Area 3G

- Band 8 – 900MHz Band 1 – 2100MHz

Area 4G – frequency bands:

- | | |
|---------------------------------------------------------------------|---------------------------------------------------------------------|
| <input type="checkbox"/> Band 1 (UL:1920–1980 MHz, DL:2110–2170MHz) | <input type="checkbox"/> Band 3 (UL:1710–1785MHz, DL:1805–1880MHz) |
| <input type="checkbox"/> Band 4 (UL:1710-1755MHz, DL: 2110-2155MHz) | <input type="checkbox"/> Band 5 (UL:824-849MHz, DL: 869-894MHz) |
| <input type="checkbox"/> Band 7 (UL:2500–2570MHz, DL:2620–2690MHz) | <input type="checkbox"/> Band 8 (UL:880–915MHz, DL: 925–960MHz) |
| <input type="checkbox"/> Band 17 (UL:704–716MHz, DL: 734-746MHz) | <input type="checkbox"/> Band 20 (UL:832–862MHz, DL:791 MHz–821MHz) |
| <input type="checkbox"/> Band 28 (UL:703–748MHz, DL: 758–803MHz) | <input type="checkbox"/> Band 32 (DL:1452-1496) in DE, IT, and UK |
| <input type="checkbox"/> Band 38 LTE TDD (UL/DL 2570 – 2620MHz) | <input type="checkbox"/> Band 42 LTE TTD (3400-3600MHz) in VF RO |

Area LTE - Evolution to 5G

- Band 42 LTE TTD (3400 - 3600MHz) are key bands in the evolution to 5G
 Band 43 LTE TTD (3600 - 3800MHz) are key bands in the evolution to 5G

Area LTE NB-IoT frequencies

- Band 3 Band 8
 Band 20 Band 28

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Feature set

Area GPRS

- Multislot Class 10 Multislot Class 12

Area EDGE

- Multislot Class 12

Area UMTS

- Cat 6 - DL: 3,6 Mbps Cat 7-DL: 7,2 Mbps Cat 8-DL: 7,2 Mbps Cat 10-DL: 14,4 Mbps

Area HSPA+

- Cat 14 - DL: 21 Mbps Cat 16 - DL: 28 Mbps Cat 24 - DL: 42 Mbps

Area LTE

- Cat 1 - DL: 10 Mbps Cat 4 - DL: 150 Mbps Cat 6 - DL: 300 Mbps

- Cat 9 - DL: 450 Mbps Freq. Band combination:

- CAT 12 - DL: 600 Mbps Freq. Band combination:

- CAT 16 - DL: 1 Gbps Freq. Band combination:

- CAT 18 - DL 1,2 Gbps Freq. Band combination:

Voice / SMS

- Voice
 VoLTE
 VoWiFi
 eCall
 SMS

Area SIM

- Support of Proactive SIM commands SIM Toolkit, Steering of Roaming OTA

IPv6

- IPv6 IPv4v6 dual Stack

Steering of Roaming

- SoR via SS7 SoR via OTA

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Information for testing

Antenna Connector

Internal Antenna

Internal Antenna connector - connection via RF-cable possible

External Antenna

Plug connector:

LTE Settings

FGI Bit – Pattern:

ESM-Flag:

APN Settings for PDP context 1:

APN Settings for PDP context 2:

Operating System

WIN7

WIN8

WIN10

other:

Connection

Connection to IoT Device (e.g. USB, serial, network adapter)

USB

LAN

Trace Software

yes no

Comment:

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Certificates & Documents

TA 1.3	Complete GCF certification of the M2M device (GCF lab test, GCF field trial and device registration with GCF); certification of just the radio module is not sufficient.	<input type="checkbox"/> yes <input type="checkbox"/> no
TA 1.4	Vendor's AR has affixed CE on Vodafone's behalf.CE mark without Notified body ID (since Conformity Assessment was done according to RE-D Conformity Assessment III module B) and without alert sign.	<input type="checkbox"/> yes <input type="checkbox"/> no
TA 1.5	Compliance to RED Directive (2014/53/EU). EU DoC has been prepared according to RE-D annex VI and signed by Vendor's EU based office as Vodafone's Authorised Representative. DoC incl translations has been provided to Vodafone's web site and exact URL stated in the PSI leaflet.	<input type="checkbox"/> yes <input type="checkbox"/> no
TA 1.6	Where the device supports at least one FCC relevant cellular frequency band (this includes also bands which are not used by US operators), it is required that the device has passed FCC testing and is marked with the allocated FCC ID. The test reports and FCC grant of ID must be provided. The only exception is where the device has functionality that disables the FCC relevant frequency bands where it detects the use of US MNC/MCC (Mobile Network Code/Mobile Country Code).	<input type="checkbox"/> yes <input type="checkbox"/> no
TA 1.8	RoHS2, WEEE and REACH certifications/statements and WEEE logo visible on device, power supply and in-box accessories). Note: no specific RoHS symbol required.	<input type="checkbox"/> yes <input type="checkbox"/> no
TA 1.11	If the device uses internal antennas then it needs to meet VF antenna performance requirements (VF antenna spec v2.5 or later for 2G/3G devices and v3.0 or later for LTE bands). The measurement needs to be conducted by a VF approved antenna laboratory. The tested antenna sample(s) need to be stored in the Vodafone approved antenna test lab for 12 months.	<input type="checkbox"/> yes <input type="checkbox"/> no
TA 1.12	SAR report from Vodafone approved lab (for body worn devices) or MPE calculation for non-body worn devices. Applicable for devices with RF power >13dBm and able to transmit continuously for more than 6 minutes. Note: For body worn operation a separation of 5mm.	<input type="checkbox"/> yes <input type="checkbox"/> no
TA 1.15	Statement of reserved IMEI range for product and TAC code registered to supplier.	<input type="checkbox"/> yes <input type="checkbox"/> no

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