



Information on IoT Device or Cellular Module

Type	Cellular module ☐	IoT device ☐
Module Vendor		IoT device Vendor
Module Name		IoT device Name
Base Band Chipset Vendor		Embedded module Vendor
Chipset Name		Embedded module Name
Module Hardware Version		IoT Hardware Version
Module Software Version		IoT Software Version
3GPP Release		

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

	☐ Differed for hardware return
Name:	Name:
Address:	Address:
Email:	Email:
Phone:	
Company:	

Shipping address

Address: Vodafone GmbH
c.o. Roland Schmitz, TAI
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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:

☐ Band 1 (UL:1920–1980 MHz, DL:2110–2170MHz)	☐ Band 3 (UL:1710–1785MHz, DL:1805–1880MHz)
☐ Band 4 (UL:1710-1755MHz, DL: 2110-2155MHz)	☐ Band 5 (UL:824-849MHz, DL: 869-894MHz)
☐ Band 7 (UL:2500–2570MHz, DL:2620–2690MHz)	☐ Band 8 (UL:880–915MHz, DL: 925–960MHz)
☐ Band 17 (UL:704–716MHz, DL: 734-746MHz)	☐ Band 20 (UL:832–862MHz, DL:791 MHz–821MHz)
☐ Band 28 (UL:703–748MHz, DL: 758–803MHz)	☐ Band 32 (DL:1452-1496) in DE, IT, and UK
☐ Band 38 LTE TDD (UL/DL 2570 – 2620MHz)	☐ 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 (including guard band)	☐ Band 8 (including guard band)
☐ Band 20 (including guard band)	☐ Band 28 (including guard band)

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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 ☐ IPv4 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.	☐ yes ☐ 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.	☐ yes ☐ 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.	☐ yes ☐ 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).	☐ yes ☐ 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.	☐ yes ☐ 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.	☐ yes ☐ 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.	☐ yes ☐ no
TA 1.15	Statement of reserved IMEI range for product and TAC code registered to supplier.	☐ yes ☐ no

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