





TEST REPORT

BNetzA-CAB-02/21-102

Test report no.: 1-3547/21-01-26-A

Testing laboratory

CTC advanced GmbH

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Accredited Testing Laboratory:

The testing laboratory (area of testing) is accredited according to DIN EN ISO/IEC 17025 (2018-03) by the Deutsche Akkreditierungsstelle GmbH (DAkkS)

The accreditation is valid for the scope of testing procedures as stated in the accreditation certificate starting with the registration number: D-PL-12076-01.

Applicant

Digi International Inc.

9350 Excelsior Blvd, Suite 700 * Hopkins, 55343 / UNITED STATES

Phone: -/-

Contact: Dan Kobylarz

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Manufacturer

Digi International Inc.

9350 Excelsior Blvd, Suite 700

* Hopkins, 55343 / UNITED STATES

Test standard/s

FCC - Title 47 CFR Part 15 FCC - Title 47 of the Code of Federal Regulations; Chapter I; Part 15 - Radio frequency devices

For further applied test standards please refer to section 3 of this test report.

Test Item

Kind of test item: Embedded ARM module

Model name: CCWMX28N

FCC ID: MCQ-CCIMX28N

ISED certification number: 1846A-CCIMX28N

UNII bands: 5150 MHz to 5250 MHz; 5250 MHz; 5470 MHz

to 5725 MHz; 5725 MHz to 5850 MHz

Technology tested: IEEE 802.11 (W-LAN), DFS only
Antenna: Four different external antennas
Power supply: 5 V DC by external power supply

Temperature range: -40°C°C to +85°C

Radio Communications

This test report is electronically signed and valid without handwritten signature. For verification of the electronic signatures, the public keys can be requested at the testing laboratory.

Test report authorized:	Test performed:
David Lang	Andreas Kurzkurt
Lab Manager	Testing Manager

Radio Communications



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2 General information

2.1 Notes and disclaimer

The test results of this test report relate exclusively to the test item specified in this test report. CTC advanced GmbH does not assume responsibility for any conclusions and generalizations drawn from the test results with regard to other specimens or samples of the type of the equipment represented by the test item.

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This test report replaces the test report with the number 1-3547/21-01-26 and dated 2022-09-05.

2.2 Application details

Date of receipt of order: 2022-06-22

Date of receipt of test item: 2022-06-24

Start of test:* 2022-08-05

End of test:* 2022-08-05

Person(s) present during the test: -/-

2.3 Test laboratories sub-contracted

None

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^{*}Date of each measurement, if not shown in the plot, can be requested. Dates are stored in the measurement software.



3 Test standard/s, references and accreditations

T	D . L .	P			
Test standard	Date	Description			
FCC - Title 47 CFR Part 15		FCC - Title 47 of the Code of Federal Regulations; Chapter I; Part 15 - Radio frequency devices			
Guidance	Version	Description			
KDB 789033 D02 ANSI C63.4-2014 ANSI C63.10-2013 UNII: KDB 905462 D03 UNII: KDB 905462 D04	v02r01 -/- -/- v01r02 v01	Guidelines for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices - Part 15, Subpart E American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices Client Without DFS New Rules Operational Modes for DFS Testing New Rules			
Accreditation Description					
D-PL-12076-01-04		nunication and EMC Canada .dakks.de/as/ast/d/D-PL-12076-01-04e.pdf DAKS Deutsche Akkreditierungsstelle D-PL-12076-01-04			
D-PL-12076-01-05		communication FCC requirements //www.dakks.de/as/ast/d/D-PL-12076-01-05e.pdf DakkS Deutsche Akkreditierung D-PL-12076-01			

ISED Testing Laboratory Recognized Listing Number: DE0001

FCC designation number: DE0002

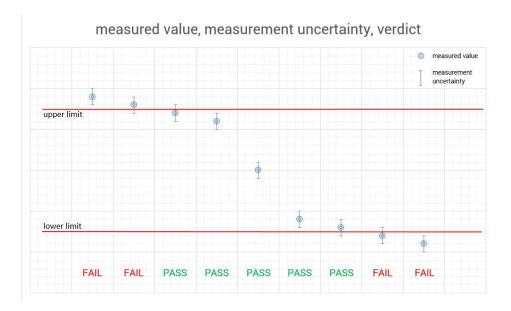
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4 Reporting statements of conformity - decision rule

Only the measured values related to their corresponding limits will be used to decide whether the equipment under test meets the requirements of the test standards listed in chapter 3.

The measurement uncertainty is mentioned in this test report, see chapter 8, but is not taken into account neither to the limits nor to the measurement results. Measurement results with a smaller margin to the corresponding limits than the measurement uncertainty have a potential risk of more than 5% that the decision might be wrong."



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5 Test environment

Temperature	:	T _{nom} T _{max} T _{min}	+22 °C during room temperature tests No tests under extreme conditions required. No tests under extreme conditions required.
Relative humidity content	:		55 %
Barometric pressure	:		1021 hpa
		V_{nom}	5.0 V DC by external power supply
Power supply	:	V_{max}	No tests under extreme voltage conditions required.
		V_{min}	No tests under extreme voltage conditions required.

6 Test item

6.1 General description

Kind of test item :	Embedded ARM modulel
Model name :	CCWMX28N
HMN :	-/-
PMN :	ConnectCard 28N
HVIN :	55002138-02
FVIN :	82004604
S/N serial number :	1
Hardware status :	55002138-02
Software status :	-/-
Firmware status :	82004604
Frequency band :	UNII bands: 5150 MHz to 5250 MHz; 5250 MHz to 5350 MHz; 5470 MHz to 5725 MHz; 5725 MHz to 5850 MHz
Type of radio transmission: Use of frequency spectrum:	OFDM
Type of modulation :	CCK, (D)BPSK, (D)QPSK, 16 - QAM, 64 - QAM, 256 - QAM
	24 with 20 MHz channel bandwidth
Number of channels :	11 with 40 MHz channel bandwidth
	5 with 80 MHz channel bandwidth
Antenna :	Four different external antennas
Power supply :	5.0 V DC by external power supply
Temperature range :	-40°C°C to +85°C

6.2 Additional information

The content of the following annexes is defined in the QA. It may be that not all of the listed annexes are necessary for this report, thus some values in between may be missing.

Test setup and EUT photos are included in test report: 1-3547/21-01-01_AnnexA

1-3547/21-01-01_AnnexB 1-3547/21-01-01_AnnexD

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7 Description of the test setup

Typically, the calibrations of the test apparatus are commissioned to and performed by an accredited calibration laboratory. The calibration intervals are determined in accordance with the DIN EN ISO/IEC 17025. In addition to the external calibrations, the laboratory executes comparison measurements with other calibrated test systems or effective verifications. Weekly chamber inspections and range calibrations are performed. Where possible, RF generating and signaling equipment as well as measuring receivers and analyzers are connected to an external high-precision 10 MHz reference (GPS-based or rubidium frequency standard).

In order to simplify the identification of the equipment used at some special tests, some items of test equipment and ancillaries can be provided with an identifier or number in the equipment list below (Lab/Item).

Each block diagram listed can contain several test setup configurations. All devices belonging to a test setup are identified with the same letter syntax. For example: Column Setup and all devices with an A.

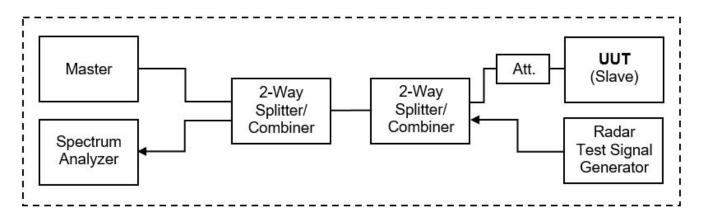
Agenda: Kind of Calibration

k	calibration / calibrated	EK	limited calibration
ne	not required (k, ev, izw, zw not required)	ZW	cyclical maintenance (external cyclical maintenance)
ev	periodic self verification	izw	internal cyclical maintenance
Ve	long-term stability recognized	g	blocked for accredited testing
vlk!!	Attention: extended calibration interval		
NK!	Attention: not calibrated	*)	next calibration ordered / currently in progress

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7.1 Dynamic frequency selection (DFS)



Equipment table:

No.		Setup	Equipment	Туре	Manufacturer	Serial No.	INV. No.	Kind of Calibration	Last Calibration	Next Calibration
1	1	Α	Vector Signal Generator	SMU200A	R&S	101633	300003496	vlKI!	04.01.2022	31.01.2025
2	2	А	Spectrum Analyzer 9kHz to 30GHz - 140+30dBm	FSP30	R&S	100886	300003575	vlKI!	08.12.2020	07.12.2022
3	3	Α	DFS-test site	div. Splitter, Cables, Attenuators	Mini-Circuits	na	300004557	ev	-/-	-/-
4	4	Α	Notebook	Latitude 15 6000 Series	Dell		300004737	ne	-/-	-/-
5	5	Α	PC	ExOne	F+W	2890296v001	300005102	ne	-/-	-/-
6	6	Α	RF-Cable DFS-Tester Receiver	ST18/SMAm/SMAm /24	Huber & Suhner	Batch no. 1308650	400001252	ev	-/-	-/-
7	7	Α	RF-Cable DFS-Tester SMU	1520.9927.00			400001253	ev	-/-	-/-
8	8	Α	RF-Cable DFS-Tester No. 1	Enviroflex 316 D	Huber & Suhner	Batch no. 1560522	400001257	ev	-/-	-/-
9	9	Α	RF-Cable DFS-Tester No. 2	Enviroflex 316 D	Huber & Suhner	Batch no. 1560522	400001258	ev	-/-	-/-
10	1 0	Α	RF-Cable DFS-Tester No. 3	Enviroflex 316 D	Huber & Suhner	Batch no. 1560522	400001259	ev	-/-	-/-
11	1	Α	RF-Cable DFS-Tester No. 4	Enviroflex 316 D	Huber & Suhner	Batch no. 1560522	400001260	ev	-/-	-/-

8 Measurement uncertainty

Measurement uncertainty				
Test case	Uncertainty			
Frequency accuracy (radar burst)	0.2 Hz			
Level accuracy (radar burst)	± 1.83 dB			

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9 Summary of measurement results

\boxtimes			
	There were deviations from the technical specifications ascertained		
	This test report is only a partial test report. The content and verdict of the performed test cases are listed below.		

TC Identifier	Description	Verdict	Date	Remark	
DFS-Testing	CFR Part 15, FCC 06-96	Pass	2022-12-13	DFS only	

Test Standard Clause	Test Case	Bandwidth	С	NC	NA	NP	Remark
7.8.1* ³	U-NII Detection Bandwidth	-/-			X		* 1 * 2 * 3
§15.407 (h)(2)	DFS Detection Threshold	-/-			X		* 1 * 2 * 3
§15.407 (h)(2) (ii) & 7.8.2* ³	Channel Availability Check Time	-/-			\boxtimes		* 1 * 3
§15.407 (h)(2) (iv) & 7.8.3* ³	Non-Occupancy Period	80 MHz	×				*2
§15.407 (h)(2) (iii) & 7.8.2* ³	Channel Move Time / Channel Closing Transmission Time	80 MHz	\boxtimes				*2
7.8.3 & 7.8.4* ³	In-Service Monitoring / Statistical Performance Check	-/-			\boxtimes		* ² * ³

Abbreviations/References:

C Compliant

NC Not compliant

NA Not applicable

NP Not performed

*1 Prior to use of a channel

*2 During normal operation

*3 Not applicable for Client Devices without radar detection.

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10 Additional comments

Reference documents	:	WLAN Connect.txt
Special test descriptions:		All tests except the In-Service Monitoring are conducted with Pulse Type 0.
Configuration descriptions:		Iperf was used to generate the required channel load (duty cycle greater 17 percent).
		e.g. for 80MHz bandwidth, the following command has been used: iperf -u -c 192.168.12.10 -i 0.5 -l 10k -t 999999 -b 17M
DFS functionality:		 □ Master device □ Client with radar detection ☑ Client without radar detection
EUT selection:		Only one device available
		Devices selected by the customer
	\boxtimes	Devices selected by the laboratory (Randomly)

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11 RF measurements

11.1 Parameters of DFS test signals

11.1.1 DFS Detection Thresholds for Master Devices as well as Client Devices With Radar Detection

Maximum Transmit Power EIRP	Value (see note)
≥ 200 mW	-64 dBm
< 200 mW and power spectral density < 10 dBm/MHz	-62 dBm
< 200 mW and That do not meet the power spectral density < 10 dBm/MHz	-64 dBm

Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna.

Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response.

Note3: EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911

11.1.2 DFS Response Requirement Values

Parameter	Value
Non-occupancy period	minimum 30 minutes
Channel Availability Check Time	60 seconds
Channel Move Time	10 seconds See Note 1.
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.
U-NII Detection Bandwidth	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.

- Note 1: Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.
- Note 2: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the eginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.
- Note 3: During the U-NII Detection Bandwidth detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

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11.1.3 Radar Test Waveforms

This section provides the parameters for required test waveforms, minimum percentage of successful detections, and the minimum number of trials that must be used for determining DFS conformance.

Short Pulse Radar Test Waveforms

Radar Type	Pulse Width (µsec)	PRI (µsec)	Number of Pulses	Minimum Percentage of Successful Detection	Minimum Number of Trials
0	1	1428	18	See Note 1	See Note 1
1	1	Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a Test B: 15 unique PRI values randomly selected within the range of 518- 3066 µsec, with a minimum increment of 1 µsec, excluding PRI values selected in Test A	Roundup $ \left[\left(\frac{1}{360} \right). \right] $ $ \left(\frac{19 \cdot 10^6}{PRI_{\mu see}} \right) $	60%	30
2	1-5	150-230	23-29	60%	30
3	6-10	200-500	16-18	60%	30
4	11-20	200-500	12-16	60%	30
Aggregate (Rada	r Types 1-4)	80%	120		

Note 1: Short Pulse Radar Type 0 should be used for the detection bandwidth test, channel move time, and channel closing time tests.

A minimum of 30 unique waveforms are required for each of the Short Pulse Radar Types 2 through 4.

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Pulse Repetition Intervals Values for Test A

Pulse Repetition Frequency	Pulse Repetition Frequency	Pulse Repetition Interval
Number	(Pulses Per Second)	(Microseconds)
1	1930.5	518
2	1858.7	538
3	1792.1	558
4	1730.1	578
5	1672.2	598
6	1618.1	618
7	1567.4	638
8	1519.8	658
9	1474.9	678
10	1432.7	698
11	1392.8	718
12	1355	738
13	1319.3	758
14	1285.3	778
15	1253.1	798
16	1222.5	818
17	1193.3	838
18	1165.6	858
19	1139	878
20	1113.6	898
21	1089.3	918
22	1066.1	938
23	326.2	3066

Long Pulse Radar Test Waveform

Radar Type	Pulse Width (µsec)	Chirp Width (MHz)	PRI (µsec)	Number of Pulses per Burst	Number of Bursts	Minimum Percentage of Successful Detection	Minimum Number of Trials
5	50-100	5-20	1000- 2000	1-3	8-20	80%	30

The parameters for this waveform are randomly chosen. Thirty unique waveforms are required for the Long Pulse Radar Type waveforms.

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Frequency Hopping Radar Test Waveform

adar ype	Pulse Width (µsec)	Chirp Width (MHz)	Pulses per Hop	Hopping Rate (kHz)	Hopping Sequence Length (msec)	Minimum Percentage of Successful Detection	Minimum Number of Trials
6	1	333	9	0.333	300	70%	30

For the Frequency Hopping Radar Type, the same Burst parameters are used for each waveform. The hopping sequence is different for each waveform and a 100-length segment is selected from the hopping sequence defined.

The first frequency in a hopping sequence is selected randomly from the group of 475 integer frequencies from 5250 – 5724 MHz. Next, the frequency that was just chosen is removed from the group and a frequency is randomly selected from the remaining 474 frequencies in the group. This process continues until all 475 frequencies are chosen for the set.

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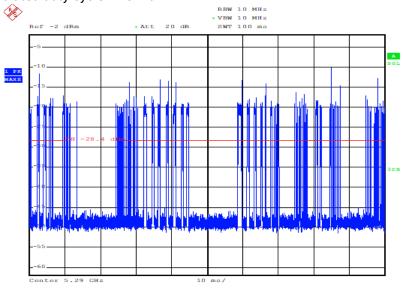


11.2 Test preparation

11.2.1 Channel loading

Timing plots are required with calculations demonstrating a minimum channel loading of approximately 17% or greater. For example, channel loading can be estimated by setting the spectrum analyzer for zero span and approximate the Time On/ (Time On + Off Time). This can be done with any appropriate channel BW and modulation type.





Date: 5.AUG.2022 12:28:19

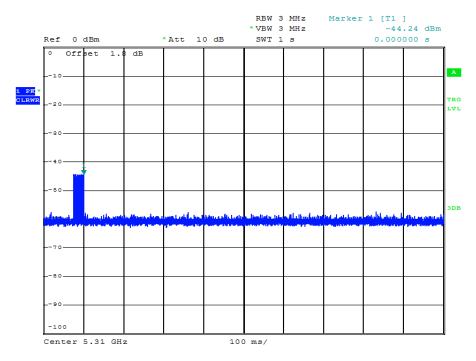
Plot 1

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11.2.2 Radar burst timing signal

To accurately determine the channel closing time and channel closing transmission time the spectrum analyser is triggered at the end of the radar burst (see marker at t = 0ms).



Plot 2

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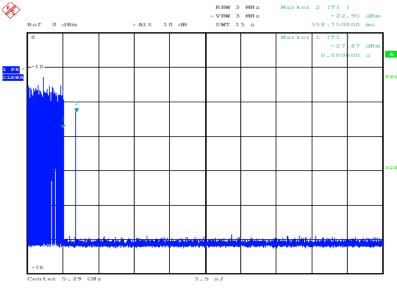
11.3 Test results (during normal operation)

11.3.1 Channel move time / channel closing transmission time

After a radar's presence is detected, all transmissions shall cease on the operating channel within 10 seconds. Transmissions during this period shall consist of normal traffic for a maximum of 200 ms after detection of the radar signal. In addition, intermittent management and control signals can be sent during the remaining time to facilitate vacating the operating channel not exceeding 60ms.

The test is performed during normal operation with the highest bandwidth supported by the DUT.

Channel Closing Time



Date: 5.AUG.2022 12:29:10

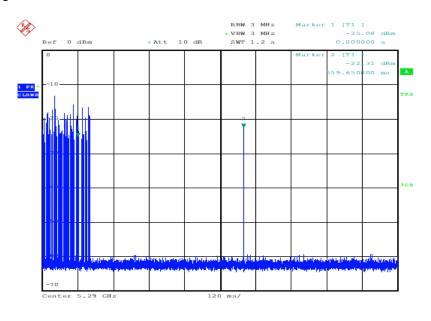
Plot 3

Note: With Marker 1 at the end of the radar pulse (t = 0ms) the Channel Closing Time is determined by setting a Delta-Marker to the point where the last transmission occurred. The Channel Closing Time is 559ms.

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Channel Closing Transmission Time



Date: 5.AUG.2022 13:46:32

Plot 4

Note: The accumulated transmission time is calculated by the number of bins occurring after t = 0ms multiplied with the Time-per-sweep point-factor resulting from the Sweep Time and number of Sweep Points of the Spectrum Analyser.

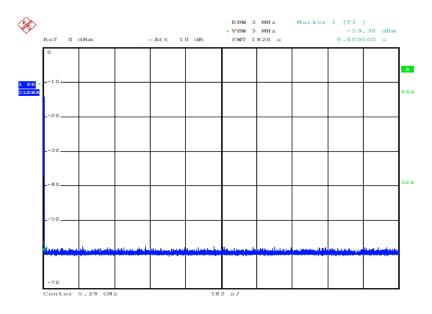
The Channel Closing Transmission Time is 0,3ms.

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11.3.2 Non-Occupancy Period

A channel that has been flagged as containing a radar system, either by a channel availability check or inservice monitoring, is subject to a non-occupancy period of at least 30 minutes. The non occupancy period starts at the time when the radar system is detected.



Date: 5.AUG.2022 13:11:51

Plot 5

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12 Observations

No observations except those reported with the single test cases have been made.

13 Glossary

EUT	Equipment under test
DUT	Device under test
UUT	Unit under test
EN	European Standard
FCC	Federal Communications Commission
FCC ID	Company Identifier at FCC
IC	Industry Canada
PMN	Product marketing name
HMN	Host marketing name
HVIN	Hardware version identification number
FVIN	Firmware version identification number
EMC	Electromagnetic Compatibility
HW	Hardware
SW	Software
Inv. No.	Inventory number
S/N or SN	Serial number
C	Compliant
NC	Not compliant
NA NA	Not applicable
NP	Not performed
PP	Positive peak
QP	Quasi peak
AVG	Average
OC	Operating channel
OCW	Operating channel bandwidth
OBW	Occupied bandwidth
ООВ	Out of band
DFS	Dynamic frequency selection
CAC	Channel availability check
OP	Occupancy period
NOP	Non occupancy period
DC	Duty cycle
PER	Packet error rate
CW	Clean wave
MC	Modulated carrier
WLAN	Wireless local area network
RLAN	Radio local area network
DSSS	Dynamic sequence spread spectrum
OFDM	Orthogonal frequency division multiplexing
FHSS	Frequency hopping spread spectrum

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14 Document history

Version	Applied changes	Date of release
-/-	Initial release	2022-09-05
А	Change of FCC and ISED ID and model name	2022-12-13

15 Accreditation Certificate - D-PL-12076-01-04

first page	last page
DAKKS Deutsche Akkreditierungsstelle Deutsche Akkreditierungsstelle GmbH Entrusted according to Section 8 subsection 1 AkkstelleG in connection with Section 1	Deutsche Akkreditierungsstelle GmbH
subsection 1 AkkStelleGBV Signatory to the Multilateral Agreements of EA, ILAC and IAF for Mutual Recognition Accreditation The Deutsche Akkreditierungsstelle GmbH attests that the testing laboratory CTC advanced GmbH Untertürkheimer Straße 6-10, 66117 Saarbrücken is competent under the terms of DIN EN ISO/IEC 17025:2018 to carry out tests in the following fields: Telecommunication (TC) and Electromagnetic Compatibility (EMC) for Canadian Standards	Office Berlin Office Frankfurt am Main Office Berunschweig Spittelnmarkt 10 Europa-Allee 52 Bundesallee 100 10117 Berlin 60327 Frankfurt am Main 38116 Braunschweig
The accreditation certificate shall only apply in connection with the notice of accreditation of 09.06.2020 with the accreditation number D-PL-12076-01. It comprises the cover sheet, the reverse side of the cover sheet and the following annex with a total of 07 pages. Registration number of the certificate: D-PL-12076-01-04 Frankfurt am Main, 08.06.2020 by order [Val.ing, 178745] Egner Head of Division	The publication of extracts of the accreditation certificate is subject to the prior written approval by Deutsche Akkreditierungsstelle GmbH (DAkSs). Exempted is the unchanged form of separate disseminations of the cover sheet by the conformity assessment body mentioned overlead. No impression shall be made that the accreditation also extends to fields beyond the scope of accreditation attested by DAkIS. The accreditation was granted pursuant to the Act on the Accreditation Body (AkiStelleG) of 31 July 2009 (Federal Law Gazette 1 p. 2625) and the Regulation (EC) No 785/2009 of the European Parlament and of the Council of 9 July 2008 festing out the requirements for accreditation and market approaches the Council of 9 July 2008 festing out the requirements for accreditation and market approaches the subject of the Council of 9 July 2008 festing out the requirements for accreditation and market approaches to the State of Accreditation (EA), International Accreditation for Accreditation (EA), International Accreditation for Accreditation (EA). The signatories to these agreements recognise each other's accreditations. The up-to-date state of membership can be retrieved from the following websites: EA: www.liac.org IAF: www.liac.org IAF: www.liac.org
The certificate targether with its amore reflects the status of the time of the date of insue. The current status of the scope of accorditation can be found in the database of accorditation below of a the scope of https://www.datks.de/en/content/accredited-badies-dabks Item visus natural.	

Note: The current certificate annex is published on the websites (link see below).

https://www.dakks.de/files/data/as/pdf/D-PL-12076-01-04e.pdf

or

https://ctcadvanced.com/app/uploads/2020/06/D-PL-12076-01-04_Canada_TCEMC.pdf

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16 Accreditation Certificate - D-PL-12076-01-05

first page	last page
Deutsche Akkreditierungsstelle Deutsche Akkreditierungsstelle GmbH Entrusted according to Section 8 subsection 1 AkkStelleG in connection with Section 1 subsection 1 AkkStelleGBV Signatory to the Multilateral Agreements of EA, ILAC and IAF for Mutual Recognition Accreditation The Deutsche Akkreditierungsstelle GmbH attests that the testing laboratory CTC advanced GmbH Untertürkheimer Straße 6-10, 66117 Saarbrücken is competent under the terms of DIN EN ISO/IEC 17025:2018 to carry out tests in the following fields: Telecommunication (FCC Requirements)	Deutsche Akkreditierungsstelle GmbH Office Berlin Spittelmarkt 10 Europa-Allie S2 10117 Berlin Office Braunschweig Bundssallee 100 38116 Braunschweig
The accreditation certificate shall only apply in connection with the notice of accreditation of 09.06.2020 with the accreditation number D-PL-12076-01. It comprises the cover sheet, the reverse side of the cover sheet and the following annex with a total of 05 pages. Registration number of the certificate: D-PL-12076-01-05. Registration number of the certificate: D-PL-12076-01-05. Frankfurt am Main, 09.06.2020 by ordef 'Disk-Imp. (Proposition of the sequence of the sequ	The publication of extracts of the accreditation certificate is subject to the prior written approval by Deutsche Akkreditierungsstelle GmbH (DAkS). Exempted is the unchanged form of separate disseminations of the cover sheet by the conformity assessment body mentioned overleaf. No impression shall be made that the accreditation also extends to fields beyond the scope of accreditation attested by DAkS. The accreditation was granted pursuant to the Act on the Accreditation Body (AkStelleG) of 31 July 2009 (Federal Law Gazette 1 p. 2623) and the Regulation (EC) No 755/2009 of the European Parliament and of the Council of 3 July 2009 string out the requirements for accreditation and market surveillance relating to the marketing of products (Official Journal of the European Union L.28 of 3 July 2009, p. 30). OAKS is accreditation (EA), International Accreditation Accreditation for the European Union L.28 of 3 July 2009, p. 30). OAKS is accreditation (EA), International alloboratory Accreditation Cooperation (III.AC). The signatories to these agreements recognise each other's accreditations. The up-to-date state of membership can be retrieved from the following websites: EA: www.lac.org IAAC: www.llac.org IAAC: www.llac.org

Note: The current certificate annex is published on the websites (link see below).

https://www.dakks.de/files/data/as/pdf/D-PL-12076-01-05e.pdf

or

https://ctcadvanced.com/app/uploads/2020/06/D-PL-12076-01-05_TCB_USA.pdf