

# Accreditation



The Deutsche Akkreditierungsstelle attests with this **Partial Accreditation Certificate** that the testing laboratory

**cetecom advanced GmbH**  
**Untertürkheimer Straße 6-10, 66117 Saarbrücken**

with Locations:

**Im Teelbruch 116, 45219 Essen**  
**Untertürkheimer Straße 6-10, 66117 Saarbrücken**

meets the requirements according to DIN EN ISO/IEC 17025:2018 for the conformity assessment activities listed in the annex to this certificate. This includes additional existing legal and normative requirements for the testing laboratory, including those in relevant sectoral schemes, provided they are explicitly confirmed in the annex to this certificate.

The management system requirements of DIN EN ISO/IEC 17025 are written in the language relevant to the operations of testing laboratories and confirm generally with the principles of DIN EN ISO 9001.

This accreditation was issued in accordance with Art. 5 Para. 1 Sentence 2 of Regulation (EC) 765/2008, after an accreditation procedure was carried out in compliance with the minimum requirements of DIN EN ISO/IEC 17011 and on the basis of a review and decision of the appointed accreditation committees.

This partial accreditation certificate only applies in connection with the notice of 10.10.2023 with accreditation number D-PL-12047-01.  
It consists of this cover sheet, the reverse side of the cover sheet and the following annex with a total of 10 pages.

Registration number of the partial accreditation certificate: **D-PL-12047-01-03**  
It is a part of the accreditation certificate: D-PL-12047-01-00.

Berlin, 10.10.2023

Florian Burkart  
Head of Technical Unit

*The certificate together with the annex reflects the status as indicated by the date of issue. The current status of any given scope of accreditation can be found in the directory of accredited bodies maintained by Deutsche Akkreditierungsstelle GmbH ([www.dakks.de](http://www.dakks.de)).*

# Deutsche Akkreditierungsstelle GmbH

Office Berlin  
Spittelmarkt 10  
10117 Berlin

Office Frankfurt am Main  
Europa-Allee 52  
60327 Frankfurt am Main

Office Braunschweig  
Bundesallee 100  
38116 Braunschweig

The Deutsche Akkreditierungsstelle GmbH (DAkKS) is the entrusted national accreditation body of the Federal Republic of Germany according to § 8 section 1 AkkStelleG in conjunction with § 1 section 1 AkkStelleGBV. DAkKS is designated as the national accreditation authority by Germany according to Art. 4 Para. 4 of Regulation (EC) 765/2008 and clause 4.7 of DIN EN ISO/IEC 17000.

Pursuant to Art. 11 section 2 of Regulation (EC) 765/2008, the accreditation certificate shall be recognised as equivalent by the national authorities within the scope of this Regulation as well as by the WTO member states that have committed themselves in bilateral or multilateral mutual agreements to recognise the certificates of accreditation bodies that are members of ILAC or IAF as equivalent.

DAkKS is a signatory to the multilateral agreements for mutual recognition of the European co-operation for Accreditation (EA), International Accreditation Forum (IAF) and International Laboratory Accreditation Co-operation (ILAC).

The up-to-date state of membership can be retrieved from the following websites:

EA: [www.european-accreditation.org](http://www.european-accreditation.org)

ILAC: [www.ilac.org](http://www.ilac.org)

IAF: [www.iaf.nu](http://www.iaf.nu)

## Deutsche Akkreditierungsstelle

### Annex to the Partial Accreditation Certificate D-PL-12047-01-03 according to DIN EN ISO/IEC 17025:2018

**Valid from:** 10.10.2023

**Date of issue:** 10.10.2023

This annex is a part of the accreditation certificate D-PL-12047-01-00.

Holder of partial accreditation certificate:

**cetecom advanced GmbH**  
**Untertürkheimer Straße 6-10, 66117 Saarbrücken**

with Locations:

**Im Teelbruch 116, 45219 Essen**  
**Untertürkheimer Straße 6-10, 66117 Saarbrücken**

The testing laboratory meets the requirements of DIN EN ISO/IEC 17025:2018 to carry out the conformity assessment activities listed in this annex. The testing laboratory meets additional legal and normative requirements, if applicable, including those in relevant sectoral schemes, provided that these are explicitly confirmed below.

The management system requirements of DIN EN ISO/IEC 17025 are written in the language relevant to the operations of testing laboratories and confirm generally with the principles of DIN EN ISO 9001.

Tests in the fields:

**Electromagnetic Compatibility and Telecommunication (FCC Requirements)**

*This certificate annex is only valid together with the written accreditation certificate and reflects the status as indicated by the date of issue. The current status of any given scope of accreditation can be found in the directory of accredited bodies maintained by Deutsche Akkreditierungsstelle GmbH at <https://www.dakks.de>.*

**Annex to the Partial Accreditation Certificate D-PL-12047-01-03**

**Accreditation scope for location Essen:**

Section	Scope	Test Method(s)	Frequency (max. assessed)
<b>Electromagnetic Compatibility (EMC) and Radio Equipment and Systems</b>			
USA	Unintentional Radiators (FCC Part 15, Subpart B)	ANSI C63.4: 2014  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	500 GHz
USA	Industrial, Scientific, and Medical Equipment (FCC Part 18)  ● Consumer ISM equipment	FCC MP-5: 1986-02  FCC Methods of Measurements of Radio Noise Emissions from Industrial, Scientific, and Medical Equipment	500 GHz
USA	Intentional Radiators (FCC Part 15 Subpart C)	ANSI C 63.10: 2013  American National Standard for Testing of Unlicensed Wireless Devices	500 GHz
USA	U-NII without DFS Intentional Radiators (FCC Part 15, Subpart E)  ● Unlicensed National Information Infrastructure Devices (U-NII Devices without DFS)	ANSI C 63.10: 2013  American National Standard for Testing of Unlicensed Wireless Devices  in combination with KDB Publication 789033 D02	40 GHz
USA	UPCS (Part 15, Subpart D) ● Unlicensed Personal Communication Systems devices	ANSI C 63.17: 2013 American National Standard for Testing of Unlicensed Wireless Devices	40 GHz

**Annex to the Partial Accreditation Certificate D-PL-12047-01-03**

Section	Scope	Test Method(s)	Frequency (max. assessed)
USA	U-NII with DFS Intentional Radiators (FCC Part 15, Subpart E) <ul style="list-style-type: none"> <li>• Unlicensed National Information Infrastructure (U-NII) Devices with Dynamic Frequency Selection (DFS)</li> </ul>	FCC KDB Publication 905462 D02/D03/D04/D06/D07  UNII DFS Compliance Procedures New Rules v02 (April 8, 2016)	40 GHz
USA	UWB Intentional Radiators (FCC Part 15, Subpart F) <ul style="list-style-type: none"> <li>• Ultra-wideband Operation</li> </ul>	ANSI C 63.10: 2013  American National Standard for Testing of Unlicensed Wireless Devices	500 GHz
USA	BPL Intentional Radiators (FCC Part 15, Subpart G) <ul style="list-style-type: none"> <li>• Access Broadband Over Power Line (Access BPL)</li> </ul>	ANSI C 63.10: 2013  American National Standard for Testing of Unlicensed Wireless Devices	40 GHz
USA	White Space Device Intentional Radiators (FCC Part 15, Subpart H) <ul style="list-style-type: none"> <li>• White Space Devices</li> </ul>	ANSI C 63.10: 2013  American National Standard for Testing of Unlicensed Wireless Devices	40 GHz
USA	Commercial Mobile Services (FCC Licensed Radio Service Equipment) <ul style="list-style-type: none"> <li>• Part 22 (Cellular)</li> <li>• Part 24</li> <li>• Part 25 (below 3 GHz)</li> <li>• Part 27</li> </ul>	ANSI C 63.26: 2015 ANSI/TIA-603-E:2016 TIA-102.CAAA-E 2016  American National Standard for Testing of Unlicensed Wireless Devices  in combination with KDB Publication 971168	500 GHz

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Section	Scope	Test Method(s)	Frequency (max. assessed)
USA	General Mobile Radio Services (FCC Licensed Radio Service Equipment) <ul style="list-style-type: none"> <li>● Part 22 (non-cellular)</li> <li>● Part 90 (below 3 GHz)</li> <li>● Part 95 (below 3 GHz)</li> <li>● Part 97 (below 3 GHz)</li> <li>● Part 101 (below 3 GHz)</li> </ul>	ANSI/TIA-603-E:2016 ANSI/TIA-102.CAAA-E:2016 ANSI C 63.26: 2015  American National Standard for Testing of Unlicensed Wireless Devices	500 GHz
USA	Citizens Broadband Radio Service (FCC Licensed Radio Service Equipment) <ul style="list-style-type: none"> <li>● Part 96</li> </ul>	ANSI/TIA-603-E:2016 ANSI/TIA-102.CAAA-E:2016 ANSI C 63.26: 2015  in combination with KDB Publication 971168 and 940660	500 GHz
USA	Maritime and Aviation Radio Services (FCC Licensed Radio Service Equipment) <ul style="list-style-type: none"> <li>● Part 80</li> <li>● Part 87</li> </ul>	TIA-603-E:2016 ANSI C63.26: 2015	500 GHz
USA	Microwave and Millimeter Bands Radio Services (FCC Licensed Radio Service Equipment) <ul style="list-style-type: none"> <li>● Part 25</li> <li>● Part 30</li> <li>● Part 74</li> <li>● Part 90 (above 3 GHz)</li> <li>● Part 95 (above 3 GHz)</li> <li>● Part 97 (above 3 GHz)</li> <li>● Part 101</li> </ul>	TIA-603-E:2016 TIA-102.CAAA-E:2016 ANSI C63.26: 2015  in combination with KDB Publication 653005	500 GHz
USA	Broadcast Radio Services (FCC Licensed Radio Service Equipment) <ul style="list-style-type: none"> <li>● Part 73</li> <li>● Part 74 (below 3 GHz)</li> </ul>	TIA-603-E:2016 TIA-102.CAAA-E:2016 ANSI C63.26: 2015	500 GHz

**Annex to the Partial Accreditation Certificate D-PL-12047-01-03**

Section	Scope	Test Method(s)	Frequency (max. assessed)
USA	Signal Boosters (section 90.219) <ul style="list-style-type: none"> <li>● Wideband Consumer signal boosters</li> <li>● Provider-specific signal boosters</li> <li>● Industrial signal boosters</li> <li>● Part 20.21</li> </ul>	ANSI C63.26: 2015  in combination with KDB Publication 935210 D02, D03, D04 and D05	500 GHz
<b>Specific Absorption Rate (SAR) &amp; Human Exposure to EM-Fields</b>			
USA	IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques – Description Devices subject to MPE or SAR requirements	IEEE 1528-2013  in combination with KDB Publication 447498 D01, D02 and D03 KDB Publication 865664 D01 and D02	500 GHz Only Devices subject to MPE

**Annex to the Partial Accreditation Certificate D-PL-12047-01-03**

**Accreditation scope for location Saarbrücken:**

Section	Scope	Test Method(s)	Frequency (max. assessed)
USA	Unintentional Radiators (FCC Part 15, Subpart B)	ANSI C 63.4-2014  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	40 GHz
USA	Industrial, Scientific, and Medical Equipment (FCC Part 18)  • Consumer ISM equipment	FCC MP-5:1986-02  FCC Methods of Measurements of Radio Noise Emissions from Industrial, Scientific, and Medical Equipment	325 GHz
USA	Intentional Radiators (FCC Part 15 Subpart C)	ANSI C 63.10-2013  American National Standard for Testing of Unlicensed Wireless Devices	500 GHz
USA	UPCS (FCC Part 15, Subpart D)  • Unlicensed Personal Communication Systems devices	ANSI C 63.17-2013  American National Standard - Methods of Measurement of the Electromagnetic and Operational Compatibility of Unlicensed Personal Communications Services (UPCS) Devices	40 GHz
USA	U-NII without DFS Intentional Radiators (FCC Part 15, Subpart E)  • Unlicensed National Information Infrastructure Devices (U-NII Devices without DFS)	ANSI C 63.10-2013  American National Standard for Testing of Unlicensed Wireless Devices  in combination with KDB Publication 789033	40 GHz



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Section	Scope	Test Method(s)	Frequency (max. assessed)
USA	U-NII with DFS Intentional Radiators (FCC Part 15, Subpart E) <ul style="list-style-type: none"> <li>• Unlicensed National Information Infrastructure (U-NII) Devices with Dynamic Frequency Selection (DFS)</li> </ul>	FCC KDB Publication 905462 D02  UNII DFS Compliance Procedures New Rules v02 (April 8, 2016)	40 GHz
USA	UWB Intentional Radiators (FCC Part 15, Subpart F) <ul style="list-style-type: none"> <li>• Ultra-wideband Operation</li> </ul>	ANSI C 63.10-2013  American National Standard for Testing of Unlicensed Wireless Devices	200 GHz
USA	BPL Intentional Radiators (FCC Part 15, Subpart G) <ul style="list-style-type: none"> <li>• Access Broadband over Power Line (Access BPL)</li> </ul>	ANSI C 63.10-2013  American National Standard for Testing of Unlicensed Wireless Devices	40 GHz
USA	White Space Device Intentional Radiators (FCC Part 15, Subpart H) <ul style="list-style-type: none"> <li>• White Space Devices</li> </ul>	ANSI C 63.10-2013  American National Standard for Testing of Unlicensed Wireless Devices	40 GHz
USA	Commercial Mobile Services (FCC Licensed Radio Service Equipment) <ul style="list-style-type: none"> <li>• Part 22 (cellular)</li> <li>• Part 24</li> <li>• Part 25 (below 3 GHz)</li> <li>• Part 27</li> </ul>	ANSI/TIA-603-E-2016 ANSI/TIA-102.CAAA-E-2016 ANSI C63.26-2015  in combination with KDB Publication 971168	200 GHz

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Section	Scope	Test Method(s)	Frequency (max. assessed)
USA	General Mobile Radio Services (FCC Licensed Radio Service Equipment) <ul style="list-style-type: none"> <li>• Part 22 (non-cellular)</li> <li>• Part 90 (below 3 GHz)</li> <li>• Part 95</li> <li>• Part 97 (below 3 GHz)</li> <li>• Part 101(below 3 GHz)</li> </ul>	ANSI/TIA-603-E-2016 ANSI/TIA-102.CAAA-E-2016 ANSI C63.26-2015	200 GHz
USA	Citizens Broadband Radio Services (FCC Licensed Radio Service Equipment) <ul style="list-style-type: none"> <li>• Part 96</li> </ul>	ANSI/TIA-603-E-2016 ANSI/TIA-102.CAAA-E-2016 ANSI C63.26-2015  in combination with KDB Publication 971168 and 940660	200 GHz
USA	Maritime and Aviation Radio Services (FCC Licensed Radio Service Equipment) <ul style="list-style-type: none"> <li>• Part 80</li> <li>• Part 87</li> </ul>	ANSI/TIA-603-E-2016 ANSI C63.26-2015	200 GHz
USA	Microwave and Millimeter Bands Radio Services (FCC Licensed Radio Service Equipment) <ul style="list-style-type: none"> <li>• Part 25</li> <li>• Part 30</li> <li>• Part 74</li> <li>• Part 90 (above 3 GHz)</li> <li>• Part 95 (above 3 GHz)</li> <li>• Part 97 (Above 3 GHz)</li> <li>• Part 101</li> </ul>	ANSI/TIA-603-E-2016 ANSI/TIA-102.CAAA-E-2016 ANSI C63.26-2015  in combination with KDB Publication 653005	500 GHz

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Section	Scope	Test Method(s)	Frequency (max. assessed)
USA	<p>Broadcast Radio Services (FCC Licensed Radio Service Equipment)</p> <ul style="list-style-type: none"> <li>Part 73</li> <li>Part 74 (below 3 GHz)</li> </ul>	<p>ANSI/TIA-603-E-2016 ANSI/TIA-102.CAAA-E-2016 ANSI C63.26-2015</p>	200 GHz
USA	<p>RF Exposure</p> <ul style="list-style-type: none"> <li>Devices subject to SAR requirements</li> </ul>	<p>IEEE Std 1528™-2013</p> <p>IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques</p> <p>in combination with KDB Publication 865664 and in combination with KDB Publication 447498</p>	6 GHz
USA	<p>Hearing Aid Compatibility (Part 20)</p> <ul style="list-style-type: none"> <li>HAC for Commercial mobile services</li> </ul>	<p>ANSI C 63.19-2011</p> <p>American National Standard for Methods of Measurement of Compatibility between Wireless Communication Devices and Hearing Aids</p>	6 GHz
USA	<p>Signal Boosters (Part 20)</p> <ul style="list-style-type: none"> <li>Wideband Consumer signal boosters</li> <li>Provider-specific signal boosters</li> <li>Industrial signal boosters</li> </ul> <p>Signal Boosters (Section 90.219)</p>	<p>ANSI C63.26-2015</p> <p>in combination with KDB Publication 935210 D03, D04 and D05</p>	200 GHz

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- [1] ANSI/TIA-603-D-2010 or ANSI/TIA-102.CAAA-D-2013 may continue to be used until the end of the transition period which is two years from the date of the publication of this KDB.
- [2] ANSI C63.19-2007, *American National Standard for Methods of Measurement of Compatibility Between Wireless Communication Devices and Hearing Aids* may be used for HAC testing until August 28, 2018 per FCC 17-135.
- [3] For Signal Boosters (Part 20) accreditation is required for Commercial Mobile Services (FCC Licensed Radio Service Equipment) and for Signal Boosters (Section 90.219) accreditation is required for General Mobile Radio Services (FCC Licensed Radio Service Equipment).