

Deutsche Akkreditierungsstelle GmbH

Annex to the Accreditation Certificate D-PL-12108-01-02 according to DIN EN ISO/IEC 17025:2018

Valid from: 05.06.2019

Date of issue: 28.06.2019

Holder of certificate:

**Fujitsu Technology Solutions GmbH
Product Compliance Center
Bürgermeister-Ulrich-Straße 100, 86199 Augsburg**

Tests in the fields:

**Electromagnetic compatibility (EMC)
Safety electrical equipment
Safety Environmental Testing (Mechanics, Acoustic, Climate-, Temperature Testing and
Thermography)
Energy Efficiency**

Within the scope of accreditation marked with *), the testing laboratory is permitted, without being required to inform and obtain prior approval from DAkkS, to use standards or equivalent testing methods listed here with different issue dates.

The testing laboratory maintains a current list of all testing methods within the flexible scope of accreditation.

***Accreditation with flexible scope category III pages 3-13, 15-27
Accreditation with flexible scope category I pages 28-29**

This document is a translation. The definitive version is the original German annex to the accreditation certificate.

*The certificate together with its annex reflects the status at the time of the date of issue. The current status of the scope of accreditation can be found in the database of accredited bodies of Deutsche Akkreditierungsstelle GmbH.
<https://www.dakks.de/en/content/accredited-bodies-dakks>*

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Technical field	Standard or test method/revision level	Title of standard or test method	Test method restrictions
A) Electromagnetic compatibility EMC			
1. Standards within the flexible accreditation Scope Category III			
1.1 Basic standards			
EMC	EN 61000-4-2:2009 DIN EN 61000-4-2; VDE 0847-4-2:2009	Electromagnetic compatibility (EMC) - Part 4-2 : Testing and measurement techniques - Electrostatic discharge immunity test (IEC 61000-4-2:2008); German Version EN 61000-4-2:2009	
EMC	IEC 61000-4-2:2008	Electromagnetic compatibility (EMC) - Part 4-2 : Testing and measurement techniques - Electrostatic discharge immunity test	
EMC	EN 61000-4-3:2006 DIN EN 61000-4-3; VDE 0847-4-3:2011	Electromagnetic compatibility (EMC) - Part 4-3: Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test (IEC 61000-4-3:2006 + A1:2007 + A2:2010); German Version EN 61000-4-3:2006 + A1:2008 + A2:2010	f ≤ 2 GHz: max. 20 V/m, 2 GHz ≤ f ≤ 6 GHz: max. 10 V/m
EMC	IEC 61000-4-3:2010-04	Electromagnetic compatibility (EMC) - Part 4-3: Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test	f ≤ 2 GHz: max. 20 V/m, 2 GHz ≤ f ≤ 6 GHz: max. 10 V/m
EMC	EN 61000-4-4:2012 DIN EN 61000-4-4; VDE 0847-4-4:2013	Electromagnetic compatibility (EMC) - Part 4-4: Testing and measurement techniques - Electrical fast transient/burst immunity test (IEC 61000-4-4:2012); German Version EN 61000-4-4:2012	
EMC	IEC 61000-4-4:2012	Electromagnetic compatibility (EMC) - Part 4-4: Testing and measurement techniques - Electrical fast transient/burst immunity test	
EMC	EN 61000-4-5:2014 DIN EN 61000-4-5; VDE 0847-4-5:2015-03	Electromagnetic compatibility (EMC) - Part 4-5: Testing and measurement techniques - Surge immunity test (IEC 61000-4-5:2014); German Version EN 61000-4-5:2014	

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EMC	IEC 61000-4-5:2014	Electromagnetic compatibility (EMC) - Part 4-5: Testing and measurement techniques - Surge immunity test	
EMC	EN 61000-4-6:2014 DIN EN 61000-4-6; VDE 0847-4-6:2014-08	Electromagnetic compatibility (EMC) - Part 4-6: Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields (IEC 61000-4-6:2013); German Version EN 61000-4-6:2014	
EMC	IEC 61000-4-6:2013	Electromagnetic compatibility (EMC) - Part 4-6: Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields	
EMC	EN 61000-4-8:2010 DIN EN 61000-4-8; VDE 0847-4-8:2010	Electromagnetic compatibility (EMC) - Part 4-8: Testing and measurement techniques - Power frequency (IEC 61000-4-8:2009); German Version EN 61000-4-8:2010	≤ 100 A/m long term field ≤ 100 A/m short term field
EMC	IEC 61000-4-8:2009	Electromagnetic compatibility (EMC) - Part 4-8: Testing and measurement techniques - Power frequency	≤ 100 A/m long term field ≤ 100 A/m short term field
EMC	EN 61000-4-11:2004 DIN EN 61000-4-11; VDE 0847-4-11:2005	Electromagnetic compatibility (EMC) - Part 4-11: Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity tests (IEC 61000-4-11:2004); German Version EN 61000-4-11:2004	
EMC	IEC 61000-4-11:2004	Electromagnetic compatibility (EMC) - Part 4-11: Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity tests	

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EMC	EN 61000-4-28:2000 +A1:2004 +A2:2009 DIN EN 61000-4-28; VDE 0847-4-28:2009	Electromagnetic compatibility (EMC) - Part 4-28: Testing and measurement techniques - Variation of power frequency, immunity test for equipment with input current not exceeding 16 A per phase (IEC 61000-4-28:1999 + A1:2001 + A2:2009); German Version EN 61000-4-28:2000 + A1:2004 + A2:2009	
EMC	IEC 61000-4-28:1999 +A1:2001 +A2:2009	Electromagnetic compatibility (EMC) - Part 4-28: Testing and measurement techniques - Variation of power frequency, immunity test for equipment with input current not exceeding 16 A per phase	
1.2 Generic standards			
EMC	EN 61000-6-1:2007 DIN EN 61000-6-1; VDE 0839-6-1:2007	Electromagnetic compatibility (EMC) Part 6-1: Generic standards - Immunity standard for residential, commercial and light-industrial environments (IEC 61000-6-1:2005); German Version EN 61000-6-1:2007	without TEM or GTEM waveguide according IEC 61000-4-20
EMC	IEC 61000-6-1:2016	Electromagnetic compatibility (EMC) Part 6-1: Generic standards - Immunity standard for residential, commercial and light-industrial environments	without TEM or GTEM waveguide according IEC 61000-4-20
EMC	EN 61000-6-2:2005 DIN EN 61000-6-2; VDE 0839-6-2:2006	Electromagnetic compatibility (EMC), Part 6-2: Generic standards - Immunity for industrial environments (IEC 61000-6-2:2005); German Version EN 61000-6-2:2005	without TEM or GTEM waveguide according IEC 61000-4-20
EMC	IEC 61000-6-2:2016	Electromagnetic compatibility (EMC), Part 6-2: Generic standards - Immunity for industrial environments	without TEM or GTEM waveguide according IEC 61000-4-20

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EMC	EN 61000-6-3:2007 +A1:2011 DIN EN 61000-6-3; VDE 0839-6-3:2011	Electromagnetic compatibility (EMC) - Part 6-3: Generic standards - Emission standard for residential, commercial and light-industrial environments (IEC 61000-6-3:2006 + A1:2010); German Version EN 61000-6-3:2007 + A1:2011	without TEM or GTEM waveguide according IEC 61000-4-20
EMC	IEC 61000-6-3:2011	Electromagnetic compatibility (EMC) - Part 6-3: Generic standards - Emission standard for residential, commercial and light-industrial environments	without TEM or GTEM waveguide according IEC 61000-4-20
EMC	EN 61000-6-4:2007 +A1:2011 DIN EN 61000-6-4; VDE 0839-6-4:2011	Electromagnetic compatibility (EMC) - Part 6-4: Generic standards -Emission standard for industrial environments (IEC 61000-6-4:2006 + A1:2010); German Version EN 61000-6-4:2007 + A1:2011	without TEM or GTEM waveguide according IEC 61000-4-20
EMC	IEC 61000-6-4:2011	Electromagnetic compatibility (EMC) - Part 6-4: Generic standards -Emission standard for industrial environments	without TEM or GTEM waveguide according IEC 61000-4-20
EMC	EN 61000-6-5:2015 DIN EN 61000-6-5 VDE 0839-6-5:2016-07	Electromagnetic compatibility (EMC) Part 6-5: Generic standards Immunity for equipment used in power station and substation environment (IEC 61000-6-5:2015); German Version EN 61000-6-5:2015	no 1kA/m for 1s according IEC61000-4-16, no IEC61000-4-18, no IEC61000-4-34, no IEC61000-4-29
EMC	IEC 61000-6-5:2015	Electromagnetic compatibility (EMC) Part 6-5: Generic standards Immunity for equipment used in power station and substation environment	no 1kA/m for 1s according to IEC61000-4-16, no IEC61000-4-18, no IEC61000-4-34, no IEC61000-4-29

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1.3 Product family standards			
EMC	EN 12016:2013 DIN EN 12016:2013-12	Electromagnetic compatibility - Product family standard for lifts, escalators and moving walks – Immunity; German version EN 12016:2013	
EMC	EN 50130-4:2011+A1:2014 DIN EN 50130-4; VDE 0830-1-4:2015-04	Alarm systems Part 4: Electromagnetic compatibility, Product family standard: Immunity requirements for components of fire, intruder, hold up, CCTV, access control and social alarm systems; German version EN 50130-4:2011 + A1:2014	
EMC	EN 50293:2012 DIN EN 50293; VDE 0832-200:2013-02	Road traffic signal systems - Electromagnetic compatibility; German version EN 50293:2012	
EMC	EN 50491-5-1:2010 DIN EN 50491-5-1; VDE 0849-5-1:2010-11	General requirements for Home and Building Electronic Systems (HBES) and Building Automation and Control Systems (BACS) - Part 5-1: EMC requirements, conditions and test set-up; German version EN 50491-5-1:2010	
EMC	EN 50491-5-2:2010 DIN EN 50491-5-2; VDE 0849-5-2:2010-11	General requirements for Home and Building Electronic Systems (HBES) and Building Automation and Control Systems (BACS) - Part 5-2: EMC requirements for HBES/BACS used in residential, commercial and light industry environment; German version EN 50491-5-2:2010	
EMC	EN 50491-5-3:2010 DIN EN 50491-5-3; VDE 0849-5-3:2010-11	General requirements for Home and Building Electronic Systems (HBES) and Building Automation and Control Systems (BACS) - Part 5-3: EMC requirements for HBES/BACS used in industry environment; German version EN 50491-5-3:2010	

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EMC	EN 55011:2016 DIN EN 55011; VDE 0875-11:2017-03	Industrial, scientific and medical equipment - Radio-frequency disturbance characteristics - Limits and methods of measurement (CISPR 11:2015, modification); German Version EN 55011:2016	
EMC	CISPR 11:2015 +A1:2016	Industrial, scientific and medical equipment - Radio-frequency disturbance characteristics - Limits and methods of measurement	
EMC	EN 55014-1:2006 +A1:2009 +A2:2011 DIN EN 55014-1; VDE 0875-14-1:2012	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 1: Emission (CISPR 14-1:2005 + A1:2008 + Cor. :2009 + A2:2011); German Version EN 55014-1:2006 + A1:2009 + A2:2011	
EMC	CISPR 14-1:2005 +A1:2008 +A2:2011	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 1: Emission	
EMC	EN 55014-2:2015 DIN EN 55014-2; VDE 0875-14-2:2016-01	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 2: Immunity - Product family standard (CISPR 14-2:2015); German Version EN 55014-2:2015	
EMC	CISPR 14-2:2015	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 2: Immunity - Product family standard	
EMC	EN 55015:2013 +A1:2015 DIN EN 55015; VDE 0875-15-1:2014-03	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment (CISPR 15:2013 + IS1:2013 + IS2:2013); German Version EN 55015:2013	excluding the part 7.2.4, 9.1.1, Annex A
EMC	CISPR 15:2013 +A1:2015 CSV	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment	excluding the part 7.2.4, 9.1.1, Annex A

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EMC	EN 55022:2010 DIN EN 55022; VDE 0878-22:2011-12	Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement (CISPR 22:2008, modifiziert); German Version EN 55022:2010	
EMC	CISPR 22:2008	Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement	
EMC	EN 55024:2010 +A1:2015 DIN EN 55024; VDE 0878-24:2011-09	Information technology equipment-Immunity characteristics-Limits and methods of measurement (CISPR 24:2010); German Version EN 55024:2010	
EMC	CISPR 24:2010 +A1:2015 CSV	Information technology equipment-Immunity characteristics-Limits and methods of measurement	
EMC	EN 55032:2015 DIN EN 55032; VDE 0878-32:2016-02	Electromagnetic compatibility of multimedia equipment - Emission requirements (CISPR 32:2015); German Version EN 55032:2015	
EMC	CISPR 32:2015	Electromagnetic compatibility of multimedia equipment - Emission requirements	
EMC	EN 55035:2017	Electromagnetic compatibility of multimedia equipment - Immunity requirements (CISPR 35:2016 , modified)	Without testing broadband receiver acc. Annex A
EMC	CISPR 35:2016	Electromagnetic Compatibility of Multimedia equipment, Immunity Requirements	Without testing broadband receiver acc. Annex A
EMC	EN 61000-3-2:2014 DIN EN 61000-3-2; VDE 0838-2:2015-03	Electromagnetic compatibility (EMC)Part 3-2: Limits, Limits for harmonic current emissions (equipment input current ≤16 A per phase) (IEC 61000-3-2:2014); German Version EN 61000-3-2:2014	
EMC	IEC 61000-3-2:2014	Electromagnetic compatibility (EMC)Part 3-2: Limits, Limits for harmonic current emissions (equipment input current ≤16 A per phase)	

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EMC	EN 61000-3-3:2013 DIN EN 61000-3-3; VDE 0838-3:2014-03	Electromagnetic compatibility (EMC) - Part 3-3: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current <16 A per phase and not subject to conditional connection (IEC 61000-3-3:2013); German Version EN 61000-3-3:2013	
EMC	IEC 61000-3-3:2013	Electromagnetic compatibility (EMC) - Part 3-3: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current <16 A per phase and not subject to conditional connection	
EMC	EN 61326-1:2013 DIN EN 61326-1; VDE 0843-20-1:2013	Electrical equipment for measurement, control and laboratory use EMC requirements - Part 1: General requirements (IEC 61326-1:2012); German Version EN 61326-1:2013	
EMC	IEC 61326-1:2012	Electrical equipment for measurement, control and laboratory use EMC requirements - Part 1: General requirements	
EMC	EN 61800-3:2004 +A1:2012 DIN EN 61800-3; VDE 0160-103:2012-09	Adjustable speed electrical power drive systems - Part 3: EMC requirements and specific test methods (IEC 61800-3:2004 + A1:2011); German Version EN 61800-3:2004 + A1:2012	
EMC	IEC 61800-3:2004 +A1:2011	Adjustable speed electrical power drive systems - Part 3: EMC requirements and specific test methods	
EMC	EN 62040-2:2006 DIN EN 62040-2; VDE 0558-520:2006-07	Uninterruptible power systems (UPS) Part 2: Electromagnetic compatibility (EMC) requirements (IEC 62040-2:2005); German Version EN 62040-2:2006	Current ≤ 16 A

Technical field	Standard or test method/revision level	Title of standard or test method	Test method restrictions
EMC	IEC 62040-2:2005	Uninterruptible power systems (UPS) Part 2: Electromagnetic compatibility (EMC) requirements	Current \leq 16 A
1.4 Maritime equipment			
EMC	DIN EN 60945:2003	Maritime navigation and radio communication equipment and systems - General requirements - Methods of testing and required test results (IEC 60945:2002) German Version EN 60945:2002	Only the Part 9 und 10
EMC	IEC 60945:2002	Maritime navigation and radio communication equipment and systems - General requirements - Methods of testing and required test results	Only the Part 9 und 10
1.5 EMC Radio (R&TTE Art. 3.1(b) / RED Art 3.1(b))			
EMC	EN 301 489-1 V2.1.1	Electromagnetic Compatibility (EMC) standard for radio equipment and services; Harmonised Standard covering the essential requirements of article 3.1(b) of the Directive 2014/53/EU and the essential requirements of article 6 of the Directive 2014/30/EU; Part 1: Common technical requirements	Excluded are tests for radio and ancillary equipment for vehicular use (chapters 7.1 & 7.2) specifically excluded are - 8.3/8.3.2: Conducted Emission per CISPR 25 on DC ports -9.6: Transient and Surge testing per ISO 7637-2; -Annex B: emission testing per CISPR 25 and immunity testing per ISO 7637-2 for ESA

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EMC	EN 301 489-3 V2.1.1	Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 3: Specific conditions for short-Range Devices (SRD) operating on frequencies between 9 kHz and 246 GHz; Harmonised standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU	f ≤ 40 GHz
EMC	EN 301 489-17 V3.1.1	Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 17: Specific conditions for broadband Data Transmission Systems; Harmonised Standard covering the essential requirements of article 3.1(b) of the Directive 2014/53/EU	
1.6 EMC telecommunications network area			
EMC	EN 300 386 V2.1.1	Electromagnetic compatibility and Radio spectrum Matters (ERM); Telecommunication network equipment; Electromagnetic Compatibility (EMC) requirements	
1.7 EMF / EMCU			
EMC (EMF/EMCU)	<p>Prüfverfahren gemäß Abschnitt 4.1 der</p> <p>EN 62479:2010 Assessment of the compliance of low power electronic and electrical equipment with the basic restrictions related to human exposure to electromagnetic fields (10 MHz to 300 GHz)</p>	EN 62311:2008, Assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (0 Hz – 300 GHz)	f ≤ 40 GHz

Technical field	Standard or test method/revision level	Title of standard or test method	Test method restrictions
1.8 Standards of the foreign standardisation bodies			
EMC	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 CFR 47 FCC Part 15, Unintentional Radiators- Class B personal computers and peripherals - CPU boards and internal power supplies used with Class B personal computers - Class B personal computers assembled using authorized CPU boards or power supplies	
EMC	AS/NZS CISPR 32:2015	Information technology equipment, Radio disturbance characteristics, Limits and methods of measurement	
EMC	FCC MP-5:1986	FCC Methods of Measurements of Radio Noise Emissions from Industrial, Scientific, and Medical Equipment CFR 47 FCC Part 18, Industrial Scientific and Medical Equipment - Consumer ISM equipment	f ≤ 40 GHz
1.9 Withdrawn procedures			
EMC	ANSI C 63.4:2009	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	

Technical field	Standard or test method/revision level	Title of standard or test method	Test method restrictions
2. Standards and in-house procedures not within the flexible accreditation Scope Category III			
2.1 Standards of the foreign standardisation bodies (not flexible)			
EMC	CNS 13438:2006	Information technology equipment, Radio disturbance characteristics, Limits and methods of measurement	
EMC	CNS 13439:2004	Sound and Television broadcast receivers and associated equipment, Radio disturbance characteristics, Limits and methods of measurement	
EMC	GB 9254:2008	Information technology equipment, Radio disturbance characteristics, Limits and methods of measurement	
EMC	GB 17625.1:2012 IEC 61000-3-2:2009	The limits for the harmonic current emissions caused by low-voltage electrical and electronic equipments (equipment input current $\leq 16A$ per phase) (IEC 61000-3-2:2009)	
EMC	KN 32:2015	Electromagnetic compatibility of multimedia equipment, Emission requirements	excluding the parts 3.1.7, 3.1.8, 3.1.9
EMC	KN 35:2015	Electromagnetic compatibility of multimedia equipment, Immunity requirements	No testing of the broadband receivers acc. Annex A
EMC	JIS C 61000-3-2:2011	Electromagnetic compatibility (EMC) Part 3-2: Limits, Limits for harmonic current emissions (equipment input current $\leq 16 A$ per phase), Japanese version of IEC 61000-3-2:2009	
EMC	VCCI V 3:2015	Technical Requirements for testing of Information Technology Equipment (ITE)	
EMC	VCCI V 4:2012	Supplementary Test Conditions for Equipment under Test	
EMC	VCCI 32-1:2016	Technical Requirements for testing of Information Technology Equipment (ITE). VCCI 32-1:2016 is the next Version of VCCI V3:2015 in compliance with International Standard CISPR 32 Ed.2: 2015	

Technical field	Standard or test method/revision level	Title of standard or test method	Test method restrictions
B) Safety electrical equipment			
1. Standards within the flexible accreditation Scope Category III			
SAFETY	GB 4943.1 :2011	The Safety of IT equipment (including electric equipment)	Only cl.: 2.10.4, 2.10.5.4, 2.10.8.4, 3.2.5.1, 4.2.8, 4.3.6, 4.3.12, 4.3.13.2, 4.3.13.3, 4.3.13.4, 4.3.13.5, 2.3, 6, Annex A.1, Annex U, Annex AA
SAFETY	EN 60695-10-2:2014	Fire hazard testing - Abnormal heat - Ball pressure test method (IEC 60695-10-2:2014); German version EN 60695-10-2:2014	
SAFETY	EN 60695-2-10:2013	Fire hazard testing - Part 2-10: Glowing/hot-wire based test methods - Glow-wire apparatus and common test procedure (IEC 60695-2-10:2013); German version EN 60695-2-10:2013	
SAFETY	IEC 60695-2-10:2013	Fire hazard testing - Part 2-10: Glowing/hot-wire based test methods - Glow-wire apparatus and common test procedure	
SAFETY	DIN EN 60695-2-11:2014	Fire hazard testing Part 2-11: Glowing/hot-wire based test methods - Glow-wire flammability test method for end-products	
SAFETY	EN 60695-2-11:2014	Fire hazard testing Part 2-11: Glowing/hot-wire based test methods - Glow-wire flammability test method for end-products	
SAFETY	IEC 60695-2-11:2014	Fire hazard testing Part 2-11: Glowing/hot-wire based test methods - Glow-wire flammability test method for end-products	
SAFETY	DIN EN 60695-10-2:2016	Fire hazard testing - Abnormal heat - Ball pressure test method	

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SAFETY	EN 60695-10-2:2014	Fire hazard testing - Abnormal heat - Ball pressure test method	
SAFETY	IEC 60695-10-2:2014	Fire hazard testing - Part 10-2: Abnormal heat - Ball pressure test method	
SAFETY	DIN EN 60695-11-5:2005	Fire hazard testing, Test flames, Needle-flame test method, Apparatus, confirmatory test arrangement and guidance	
SAFETY	EN 60695-11-5:2005	Fire hazard testing, Test flames, Needle-flame test method, Apparatus, confirmatory test arrangement and guidance	
SAFETY	IEC 60695-11-5:2016	Fire hazard testing, Test flames, Needle-flame test method, Apparatus, confirmatory test arrangement and guidance	
SAFETY	DIN EN 60950-1:2014	Information technology equipment - Safety - Part 1: General requirements	Only Cl.: 2.10.4, 2.10.5.4, 2.10.8.4, 3.2.5.1, cl. 4.2.8, 4.3.6, 4.3.12, 4.3.13.2, 4.3.13.3, 4.3.13.4, 4.3.13.5, 2.3, 6, Annex A.1, Annex U, Annex AA
SAFETY	EN 60950-1:2006	Information technology equipment - Safety - Part 1: General requirements	Only Cl.: 2.10.4, 2.10.5.4, 2.10.8.4, 3.2.5.1, 4.2.8, cl. 4.3.6, 4.3.12, 4.3.13.2, 4.3.13.3, 4.3.13.4, 4.3.13.5, 2.3, 6, Annex A.1, Annex U, Annex AA
SAFETY	EN 60950-1:2006 +A1:2010	Information technology equipment - Safety - Part 1: General requirements	
SAFETY	EN 60950-1:2006 +A11:2009	Information technology equipment - Safety - Part 1: General requirements	
SAFETY	EN 60950-1:2006 +A12:2011	Information technology equipment - Safety - Part 1: General requirements	
SAFETY	EN 60950-1:2006 +A2:2013	Information technology equipment - Safety - Part 1: General requirements	

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SAFETY	EN 60950-1:2006 +AC:2011	Information technology equipment - Safety - Part 1: General requirements	
SAFETY	IEC 60950-1:2013	Information technology equipment - Safety - Part 1: General requirements	Only cl.: 2.10.4, 2.10.5.4, 2.10.8.4, 3.2.5.1, 4.2.8, 4.3.6, 4.3.12, 4.3.13.2, 4.3.13.3, 4.3.13.4, 4.3.13.5, 2.3, 6, Annex A.1, Annex U, Annex AA
SAFETY	UL 60950-1 CAN/CSA-C22.2 NO. 60950-1-07, AMD 1:2011, AMD 2:2014	Information Technology Equipment - Safety - Part 1: General Requirements	Only Cl.: 2.10.4, 2.10.5.4, 2.10.8.4, 3.2.5.1, 4.2.8, 4.3.6, 4.3.12, 4.3.13.2, 4.3.13.3, 4.3.13.4, 4.3.13.5, 2.3, 6, Annex A.1, Annex U, Annex AA
SAFETY	DIN EN 61010-1:2011	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements	Only 11.7, 12.2, 12.3, 12.4, Annex G, Annex H
SAFETY	EN 61010-1:2010	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements	Only 11.7, 12.2, 12.3, 12.4, Annex G, Annex H
SAFETY	IEC 61010-1:2010 +A1:2016	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements	Only 11.7, 12.2, 12.3, 12.4, Annex G, Annex H
SAFETY	IEC 61010-1:2010 +Cor1:2011	Safety Requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements	
SAFETY	IEC 61010-1:2010 +Cor2:2013	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements	
SAFETY	IEC 61010-1:2017	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements	Only 11.7, 12.2, 12.3, 12.4, Annex G, Annex H
SAFETY	DIN EN 61010-2-030:2011	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements	Maximum surge voltage up to 6kV, High Voltage Test up to 7kVAC and 8kVDC

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SAFETY	EN 61010-2-030:2010	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements	Maximum surge voltage up to 6kV, High Voltage Test up to 7kVAC and 8kVDC
SAFETY	IEC 61010-2-030:2010	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-030: Particular requirements for testing and measuring circuits	Maximum surge voltage up to 6kV, High Voltage Test up to 7kVAC and 8kVDC
SAFETY	IEC 61010-2-030:2010 +Corr1:2011	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-030: Particular requirements for testing and measuring circuits	
SAFETY	IEC 61010-2-030:2017	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-030: Particular requirements for testing and measuring circuits	Maximum surge voltage up to 6kV, High Voltage Test up to 7kVAC and 8kVDC
SAFETY	DIN EN 61010-2-201:2014	Safety requirements for electrical equipment for measurement, control, and laboratory use – Part 2-201: Particular requirement for control equipment	Only clause DD, 500W Burner
SAFETY	IEC 61010-2-201:2017	Safety requirements for electrical equipment for measurement, control, and laboratory use – Part 2-201: Particular requirement for control equipment	Only clause DD, 500W Burner
SAFETY	UL 61010-2-201:2017	Safety requirements for electrical equipment for measurement, control, and laboratory use – Part 2-201: Particular requirement for control equipment	Only clause DD, 500W Burner
SAFETY	UL 61010-2-201 National Differences :2017	Safety requirements for electrical equipment for measurement, control, and laboratory use – Part 2-201: Particular requirement for control equipment	-
SAFETY	CAN /CSA-C22.2 NO. 61010-2-201:2018	Safety requirements for electrical equipment for measurement, control, and laboratory use – Part 2-201: Particular requirement for control equipment (Adopted IEC 61020-2-201:2017, second edition, 2017-03, with Canadian deviations)	Only clause DD, 500W Burner

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Technical field	Standard or test method/revision level	Title of standard or test method	Test method restrictions
SAFETY	DIN EN 62368-1:2016	Audio/video, information and communication technology equipment - Part 1: Safety requirements (IEC 62368-1:2014, modified) / Endorsement notice	Only cl.: 5.4.3.3, 5.4.4.6.5, 10.3, 10.5, Annex C.2, Annex G.13.6, G.15, Annex J, Annex S.3, S.5, Annex U
SAFETY	EN 62368-1:2014 +A11:2017	Audio/video, information and communication technology equipment - Part 1: Safety requirements (IEC 62368-1:2014, modified) / Endorsement notice	
SAFETY	EN 62368-1:2014 +AC:2015	Audio/video, information and communication technology equipment - Part 1: Safety requirements	Only cl.: 5.4.3.3, 5.4.4.6.5, 10.3, 10.5, Annex C.2, Annex G.13.6, G.15, Annex J, Annex S.3, S.5, Annex U
SAFETY	IEC 62368-1:2014	Audio/video, information and communication technology equipment - Part 1: Safety requirements	Only cl.: 5.4.3.3, 5.4.4.6.5, 10.3, 10.5, Annex C.2, Annex G.13.6, G.15, Annex J, Annex S.3, S.5, Annex U
SAFETY	IEC 62368-1:2014 +Cor1:2015	Audio/video, information and communication technology equipment - Part 1: Safety requirements	
SAFETY	IEC 62368-1:2014 +Cor2:2015	Audio/video, information and communication technology equipment - Part 1: Safety requirements	
SAFETY	DIN EN 62368-1 Ber1:2016	Audio/video, information and communication technology equipment - Part 1: Safety requirements	
SAFETY	DIN EN 62368-1 Ber2:2017	Audio/video, information and communication technology equipment - Part 1: Safety requirements	
SAFETY	UL 62368-1 CAN/CSA C22.2 No. 62368-1-14:2014	Audio/video, information and communication technology equipment - Part 1: Safety requirements	Only cl.: 5.4.3.3, 5.4.4.6.5, 10.3, 10.5, Annex C.2, Annex G.13.6, G.15, Annex J, Annex R, Annex S.3, S.5, Annex U

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Technical field	Standard or test method/revision level	Title of standard or test method	Test method restrictions
SAFETY	EN 62479:2010-09	Assessment of the compliance of low power electronic and electrical equipment with the basic restrictions related to human exposure to electromagnetic fields	
C) Energy Efficiency			
1. Standards within the flexible accreditation Scope Category III			
Energy Efficiency	DIN EN 50563:2012	External AC/DC - and AC/AC power supplies - Determination of no-load power and average efficiency of active modes	
Energy Efficiency	EN 50563:2011	External AC/DC - and AC/AC power supplies - Determination of no-load power and average efficiency of active modes	
Energy Efficiency	EN 50563:2011 +A1:2013	External AC/DC - and AC/AC power supplies - Determination of no-load power and average efficiency of active modes	
Energy Efficiency	DIN EN 50564:2011	Electrical and electronic household and office equipment - Measurement of low power consumption	
Energy Efficiency	EN 50564:2011	Electrical and electronic household and office equipment - Measurement of low power consumption	
Energy Efficiency	EN 50672:2017(Fpr)	Ecodesign requirements for computers and computer servers	Only 5.2 Minimum number of loading cycles that batteries can withstand; Only 5.4 Total content of mercury in integrated display
Energy Efficiency	DIN EN 62018:2004	Power consumption of information technology equipment - Measurement methods	
Energy Efficiency	EN 62018:2003	Power consumption of information technology equipment - Measurement methods	
Energy Efficiency	IEC 62018:2003	Power consumption of information technology equipment - Measurement methods	
Energy Efficiency	IEC 62301:2011	Household electrical appliances - Measurement of standby power	

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Energy Efficiency	DIN EN 62623:2013	Desktop and notebook computers - Measurement of energy consumption	
Energy Efficiency	EN 62623:2013	Desktop and notebook computers - Measurement of energy consumption	
Energy Efficiency	IEC 62623:2012	Desktop and notebook computers - Measurement of energy consumption	
Energy Efficiency	EPRI Test Method for Calculating the Energy efficiency of Single-Voltage External AC-DC and AC-AC Power Supplies , Aug. 2004	Test Method for Calculation the Energy Efficiency of Single-Voltage External AC-DC and AC-AC Power Supplies	
Energy Efficiency	EPRI Generalized Internal Power Supply Efficiency Test Protocol , Rev. 6.6	Generalized Test Protocol for Calculating the Energy Efficiency of Internal Ac-Dc and Dc-Dc Power Supplies	
Energy Efficiency	EPRI Generalized Internal Power Supply Efficiency Test Protocol , Rev. 6.7	Generalized Test Protocol for Calculating the Energy Efficiency of Internal Ac-Dc and Dc-Dc Power Supplies	
Energy Efficiency	Energy Star Test Method for Computers Servers , V2.1	ENERGY STAR® Program Requirements for Computer Servers	
Energy Efficiency	Energy Star Test Method for Computers , V6.1	ENERGY STAR® Program Requirements for Computers	
Energy Efficiency	(Korea) e-Standby Power Programm :2012	Regulation on Standby Power Reduction Program	
D) Environmental Testing			
1. Standards within the flexible accreditation Scope Category III			
ACOUSTIC	ECMA-74 :2015	Measurement of Airborne Noise emitted by Information Technology and Telecommunications Equipment	Only sections based on the standard: ISO 9296, ISO 3744, ISO 7779, ECMA-109

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Technical field	Standard or test method/revision level	Title of standard or test method	Test method restrictions
ACOUSTIC	ECMA-109 :2016	Declared Noise Emission Values of Information Technology and Telecommunications Equipment	Only sections based on the standard: ISO 9296, ISO 3744, ECMA-74
ACOUSTIC	DIN EN ISO 3744:2011	Acoustics - Determination of sound power levels and sound energy levels of noise sources using sound pressure - Engineering methods for an essentially free field over a reflecting plane	Only sections based on the standard ISO 9296
ACOUSTIC	EN ISO 3744:2011	Acoustics - Determination of sound power levels and sound energy levels of noise sources using sound pressure - Engineering methods for an essentially free field over a reflecting plane	Only sections based on the standard: ISO 9296.
ACOUSTIC	ISO 3744:2010	Acoustics - Determination of sound power levels and sound energy levels of noise sources using sound pressure - Engineering methods for an essentially free field over a reflecting plane	Only sections based on the standard: ISO 9296.
ACOUSTIC	DIN EN ISO 7779:2011	Acoustics - Measurement of airborne noise emitted by information technology and telecommunications equipment	Only sections based on the standard: ISO 9296, ISO 3744, ECMA-74, ECMA-109
ACOUSTIC	EN ISO 7779:2010	Acoustics - Measurement of airborne noise emitted by information technology and telecommunications equipment	Only sections based on the standard: ISO 9296, ISO 3744, ECMA-74, ECMA-109
ACOUSTIC	ISO 7779:2010	Acoustics - Measurement of airborne noise emitted by information technology and telecommunications equipment	Only sections based on the standard: ISO 9296, ISO 3744, ECMA-74, ECMA-109
ACOUSTIC	DIN 45631:1991	Calculation of loudness level and loudness based on the noise spectrum; Process according to E. Zwicker	
ACOUSTIC	DIN 45635-1:1984	Noise measurements on machines Air-borne sound emission, envelope-surface procedure Framework procedures for 3 accuracy classes	5.4.4.1 to 5.4.4.4 Annex A2

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Technical field	Standard or test method/revision level	Title of standard or test method	Test method restrictions
ACOUSTIC	DIN EN 50332-1:2014	Sound system equipment: Headphones and earphones associated with personal music players - Maximum sound pressure level measurement methodology - Part 1: General method for "one package equipment"	
ACOUSTIC	EN 50332-1:2014	Sound system equipment: Headphones and earphones associated with personal music players - Maximum sound pressure level measurement methodology - Part 1: General method for "one package equipment"	
ACOUSTIC	DIN EN 50332-2:2014	Sound system equipment: Headphones and earphones associated with personal music players - Maximum sound pressure level measurement methodology - Part 2: Matching of sets with headphones if either or both are offered separately, or are offered as one package equipment but with standardized connectors between the two allowing to combine components of different manufacturers of different design; German version EN 50332-2:2013	
ACOUSTIC	EN 50332-2:2014	Sound system equipment: Headphones and earphones associated with personal music players - Maximum sound pressure level measurement methodology - Part 2: Matching of sets with headphones if either or both are offered separately, or are offered as one package equipment but with standardized connectors between the two allowing to combine components of different manufacturers of different design	
CLIMATE	ASTM D4332 :2015	Conditioning Containers, Packages, or Packaging Components for Testing	
CLIMATE	DNVGL-CG-0339 :2016	Environmental test specification for electrical, electronic and programmable equipment and systems, Section 3 chapter 7, 8, 9, 12, 13	
CLIMATE	DIN EN ISO 2233:2001	Packaging - Complete, filled transport packages and unit loads - Conditioning for testing	
CLIMATE	EN ISO 2233:2001	Packaging - Complete, filled transport packages and unit loads - Conditioning for testing	

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CLIMATE	ISO 2233:2000	Packaging - Complete, filled transport packages and unit loads - Conditioning for testing	
CLIMATE	IEC 104/683/CD:2016	Part 2-84: Rapid change of dew condensation	
CLIMATE	DIN EN 60068-2-1:2008	Environmental testing - Part 2-1: Tests - Tests A: Cold	
CLIMATE	EN 60068-2-1:2007	Environmental testing - Part 2-1: Tests - Tests A: Cold	
CLIMATE	IEC 60068-2-1:2007	Environmental testing - Part 2-1: Tests - Tests A: Cold	
CLIMATE	DIN EN 60068-2-14:2010	Environmental testing - Part 2-14: Tests - Test N: Change of temperature	Only Test 9 Nc: Rapid temperature change, two bathing methods
CLIMATE	EN 60068-2-14:2009	Environmental testing - Part 2-14: Tests - Test N: Change of temperature	Only Test 9 Nc: Rapid temperature change, two bathing methods
CLIMATE	IEC 60068-2-14:2009	Environmental testing - Part 2-14: Tests - Test N: Change of temperature	Only Test 9 Nc: Rapid temperature change, two bathing methods
CLIMATE	DIN EN 60068-2-2:2008	Environmental testing - Part 2-2: Tests - Test B: Dry heat	
CLIMATE	EN 60068-2-2:2007	Environmental testing - Part 2-2: Tests - Test B: Dry heat	
CLIMATE	IEC 60068-2-2:2007	Environmental testing - Part 2-2: Tests - Test B: Dry heat	
CLIMATE	DIN EN 60068-2-30:2006	Environmental testing - Part 2-30: Tests - Test Db: Damp heat, cyclic (12 h + 12 h cycle)	
CLIMATE	EN 60068-2-30:2005	Environmental testing - Part 2-30: Tests - Test Db: Damp heat, cyclic (12 h + 12 h cycle)	
CLIMATE	IEC 60068-2-30:2005	Environmental testing Part 2-30: Tests Test Db: Damp heat, cyclic (12 h + 12 h cycle)	
CLIMATE	DIN EN 60068-2-38:2010	Environmental testing Part 2-38: Tests Test Z/AD: Composite temperature/humidity cyclic test	
CLIMATE	EN 60068-2-38:2009	Environmental testing Part 2-38: Tests Test Z/AD: Composite temperature/humidity cyclic test	
CLIMATE	IEC 60068-2-38:2009	Environmental testing - Part 2-38: Tests - Test Z/AD: Composite temperature/humidity cyclic test	

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Technical field	Standard or test method/revision level	Title of standard or test method	Test method restrictions
CLIMATE	DIN EN 60068-2-78:2014	Environmental testing - Part 2-78: Tests - Test Cab: Damp heat, steady state	
CLIMATE	EN 60068-2-78:2014	Environmental testing - Part 2-78: Tests - Test Cab: Damp heat, steady state	
CLIMATE	IEC 60068-2-78:2012	Environmental testing Part 2-78: Tests Test Cab: Damp heat, steady state	
CLIMATE	E DIN EN 60068-2-84 :2016	Environmental Testing - Part 2-84: Rapid change of dew condensation	
MECHANIC	ASTM D4728 :2006	Random Vibration Testing of Shipping Containers	
MECHANIC	DNVGL-CG-0339 :2015-11	Environmental test specification for electrical, electronic and programmable equipment and systems, Section 3 chapter 6 Vibration tests	Only extreme vibration strain, table 9
MECHANIC	DIN EN ISO 13355:2017	Packaging - Complete, filled transport packages and unit loads - Vertical random vibration test	
MECHANIC	EN ISO 13355:2016	Packaging - Complete, filled transport packages and unit loads - Vertical random vibration test	
MECHANIC	ISO 13355:2016	Packaging - Complete, filled transport packages and unit loads - Vertical random vibration test	
MECHANIC	DIN EN 60068-2-27:2010	Environmental testing - Part 2-27: Tests - Test Ea and guidance: Shock	
MECHANIC	EN 60068-2-27:2009	Environmental testing - Part 2-27: Tests - Test Ea and guidance: Shock	
MECHANIC	IEC 60068-2-27:2008	Environmental testing - Part 2-27: Tests - Test Ea and guidance: Shock	
MECHANIC	DIN EN 60068-2-31:2009	Environmental testing - Part 2-31: Tests - Test Ec: Rough handling shocks, primarily for equipment-type specimens	
MECHANIC	EN 60068-2-31:2008	Environmental testing - Part 2-31: Tests - Test Ec: Rough handling shocks, primarily for equipment-type specimens	
MECHANIC	IEC 60068-2-31:2008	Environmental testing - Part 2-31: Tests - Test Ec: Rough handling shocks, primarily for equipment-type specimens	

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Technical field	Standard or test method/revision level	Title of standard or test method	Test method restrictions
MECHANIC	DIN EN 60068-2-6:2008	Environmental testing Part 2-6: Tests Test Fc: Vibration (sinusoidal)	
MECHANIC	EN 60068-2-6:2008	Environmental testing Part 2-6: Tests Test Fc: Vibration (sinusoidal)	
MECHANIC	IEC 60068-2-6:2007	Environmental testing Part 2-6: Tests Test Fc: Vibration (sinusoidal)	
MECHANIC	DIN EN 60068-2-64:2009	Environmental testing - Part 2-64: Tests - Test Fh: Vibration, broad-band random and guidance	
MECHANIC	EN 60068-2-64:2009	Environmental testing - Part 2-64: Tests - Test Fh: Vibration, broad-band random and guidance	
MECHANIC	IEC 60068-2-64:2008	Environmental testing - Part 2-64: Tests - Test Fh: Vibration, broad-band random and guidance	
PACKAGING	ASTM D999 :2015	Standard Test Methods for Vibration Testing of Shipping Containers	Method A1, B, C
PACKAGING	ASTM D5276 :2009	Drop Test of Loaded Containers by Free Fall	
PACKAGING	ISO 2206:1987	Packaging; Complete, filled transport packages; Identification of parts when testing	
PACKAGING	ISTA 1A :2014	Non-Simulation Integrity Performance Test Procedure – Packaged Products 150 lb (68 kg) or Less	
PACKAGING	ISTA 2A :2011	Partial Simulation Performance Test Procedure - Packaged-Products 150 lb (68 kg) or Less	Compression Test
PACKAGING	ISTA 3A :2008	General Simulation Performance Test Procedure - Packaged-Products for Parcel Delivery System Shipment 70 kg (150 lb) or Less	FLAT and ELONGATED Packaged-Product-Test
PACKAGING	DIN EN ISO 2247:2002	Packaging - Complete, filled transport packages and unit loads - Vibration tests at fixed low frequency	
PACKAGING	EN ISO 2247:2002	Packaging - Complete, filled transport packages and unit loads - Vibration tests at fixed low frequency	
PACKAGING	ISO 2247:2000	Packaging - Complete, filled transport packages and unit loads - Vibration tests at fixed low frequency	

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PACKAGING	ISO 2248:1985	Packaging; Complete, filled transport packages; Vertical impact test by dropping	
PACKAGING	ISO 2876:1985	Packaging; Complete, filled transport packages; Rolling test	
PACKAGING	ISO 8768:1986	Packaging; Complete, filled transport packages; Toppling test	
PACKAGING	DIN EN 22206:1993	Packaging; complete, filled transport packages; identification of parts when testing (ISO 2206:1987) (ISO 2206:1987); German Version EN 22206:1992	
PACKAGING	EN 22206:1992	Packaging; complete, filled transport packages; identification of parts when testing (ISO 2206:1987)	
PACKAGING	DIN EN 22248:1993	Packaging; complete, filled transport packages; vertical impact test by dropping	
PACKAGING	EN 22248:1992	Packaging; complete, filled transport packages; vertical impact test by dropping	
PACKAGING	DIN EN 22876:1993	Packaging; complete, filled transport packages; toppling test (ISO 8768:1986) (ISO 2876:1985); German Version EN 22876:1992	
PACKAGING	EN 22876:1992	Packaging; complete, filled transport packages; toppling test (ISO 8768:1986))	
PACKAGING	DIN EN 28768:1993	Packaging; complete, filled transport packages; toppling test (ISO 8768:1986) (ISO 8768:1986); German Version EN 28768:1992	
PACKAGING	EN 28768:1992	Packaging; complete, filled transport packages; toppling test (ISO 8768:1986)	
2. Standards and in-house procedures not within the flexible accreditation Scope Category III			
CLIMATE	A 260099-Y0023-V261:V6.0	Thermography (company internal directive); non-contact measurement of surface temperatures.	

Accreditation with the flexible Scope Category I:

Environmental Simulation Testing - Acoustics

Test	Test parameter	Test range	Typical test method
Acoustics - Measurement of airborne noise emitted by information technology and telecommunications equipment (ISO 7779:2018); German version EN ISO 7779:2018	SPL (sound pressure level) frequency	Up 15 dB(A) to 135 dB(A) 31,5Hz to 20kHz	DIN EN ISO 7779

Environmental Simulation Testing - Climate

Test	Test parameter	Test range	Typical test method
Cold, dry heat	Temperature	-35 ... +150°C	EN 60068-2-1 EN 60068-2-2 ISO 2233 ASTM D4332 ISTA 2A ISTA 3A
Temperature shock test (2-chamber method) (air/air)	Temperature	-60 ... +180 °C	EN 60068-2-14 Na
Temperature changes	Temperature	-35 ... +150°C	EN 60068-2-14 Nb
Humidity (constant)	Relative humidity	10 ... 95 % r.H.	EN 60068-2-78 ISO 2233 ASTM D4332 ISTA 2A ISTA 3A
Humidity (cyclic)	Relative humidity	10 ... 95 % r.H.	EN 60068-2-30 EN 60068-2-38

Environmental Simulation Testing – Mechanic / Vibration

Test	Test parameters	Test range	Typical test method
At an ambient temperature of 15... 35 °C (environmental conditions EN 60068-1)			
Vibration, sinusoidal	Frequency	1 - 2000 Hz	EN 60068-2-6
	Acceleration	0 - 40 g	
	Max. deflection	40 mm (pk-pk)	
	Max. velocity	1,2 m/s	
Vibration, Random	Frequency	1 – 2000 Hz	EN 60068-2-64 ISO 13355 ASTM D4728 ISTA 2A ISTA 3A
	Acceleration	17 g (51,2 g)	
	Max. deflection	40mm (pk-pk)	
	Max. velocity	1,2 m/s	
Shock, permanent shocks	Acceleration	0 – 50 g	EN 60068-2-27
	Duration	1 – 30ms	
	Shock shape	Half-sine, triangle, Trapeze	
	Max. deflection	40 mm (pk – pk)	
	Max. velocity	1,6 m/s	
Fall testing	Free fall	0 - 1200 mm	ISO 2248 DIN EN 60068-2-31 ASTM D5276 ISTA 1A ISTA 2A ISTA 3A
	Impact surface	Concrete	
Low frequency vibration testing with a fixed amplitude	Frequency	2 Hz - 5 Hz	DIN EN ISO 2247 ASTM D999 ISTA 1A ISTA 2A
	Max. deflection (Peak to peak)	25mm	