

Test Report

Report No	EH0771-1
Client	Enterasys Networks 50 Minuteman Road Andover, MA 01810
Phone	(978)-684-1009
FRN	0015453095
Model	RBT-4102C
FCC ID	QXORBT4102
Equipment Type Equipment Code	NII Unlicensed National Information Infrastructure TX
Results	As detailed within this report
Prepared by	Evan Gould – Test Engineer
Authorized by	Michael Buchholz – EMC Manager
Issue Date	7/2/07
Conditions of issue	This Test Report is issued subject to the conditions stated in 'terms and conditions' section of this report.

Curtis-Straus LLC is accredited by the American Association for Laboratory Accreditation for the specific scope of accreditation under Certificate Number 1627-01. This report may contain data which is not covered by the A2LA accreditation.



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Summary

This report is designed to demonstrate the compliance of the RBT-4102C RoamAbout Wireless LAN with the requirement outlined in 47 CFR 15.215(c). The EUT is a UNII band device operating under the provisions of Subpart E (47 CFR 15.407), which has had it's software modified from the previous model RBT-4102 in order to cease operating in the 5.25-5.35GHz band. The measurement shown below demonstrates that the 20dB bandwidth of the highest channel falls within the 5.15-5.25GHz band.

EUT Configuration

	EUT	Configura	ation			
Work Order: H0771 Company: Enterasys Networks Company Address: 50 Minuteman Road Andover, MA 01810 Contact: John Ballew Person Present: John Ballew MN SN						
FUT		C 04	-	12		
EUT: RBT-4102C 053503632102 EUT Description: RoamAbout Wireless LAN EUT Max Frequency: Channel 165 (5.8GHz)						
Support Equipment:	MN		SN			
Enterasys Wireless Switch IBM ThinkPad Ault Power Supply	RBT-8110 Type 2373 SC102TA4	99)0423B02FF -RCM82 03/ -			
EUT Cables:	Qty	Shielded?	Length	Ferrites		
B B	1	No	2m	No		
DC Power Ethernet DB9 Serial	1 1	No No	20ft 1m	No No		
Ethernet	1 1 Qty	No	20ft			
Ethernet DB9 Serial	1 1	No No	20ft			
Ethernet DB9 Serial Unpopulated EUT Ports:	1 1 Qty 1	No No Reason Redundant	20ft			

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Statement of Conformity

47 CFR 15.215(c) states that "Intentional radiator operating under the alternative provisions to the general emission limits, as contained in...Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission...is contained within the frequency band designated in the rule section under which the equipment is operated."

Test Methodology

Conducted measurements were performed at the EUT's antenna port. The device's performance was investigated within the 5.15-5.25GHz band.

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Conducted Band Edge Measurements

The frequencies at which the fundamental emission is 20dB down from the peak must be within the 5.15-5.25GHz band.

MEASUREMENTS

F_H = 5.24925GHz at 20.07dB down.

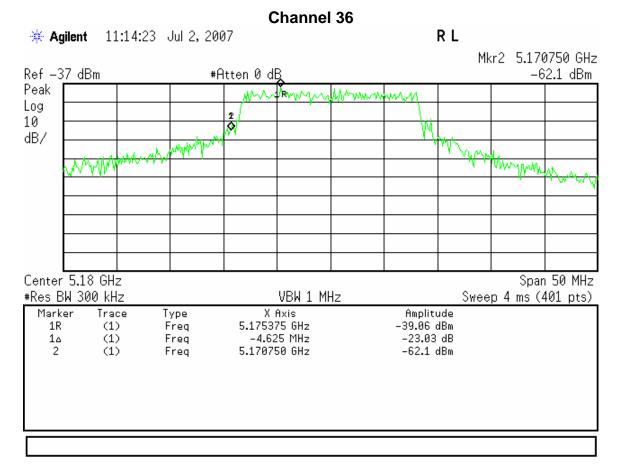
 $F_L = 5.17075GHz$ at 23.03dB down.

<u>PLOTS</u>

		Channe	48			
🔆 🔆 Agilent 🛛 11:07:03	3 Jul 2, 20	007		RL		
				Μ	lkr2 5.24	9250 GHz
Ref -40 dBm	+	Atten 0 dB			-65	<u>5.33 dBm</u>
Peak			he margane			
Log 10			1	2		
		- And		\$		
dB1	way way	ч [,]		WMM	Manya	
and MM Marine	w r			``	Manyby	MARCH MARCH
					· ·	1 1100
Center 5.24 GHz				~		n 50 MHz
#Res BW 300 kHz	т	VBW 1 M X Axis			ep4ms(401 pts)
Marker Trace 1R (1)	Type Freg	5.233500 GHz		litude ?7 dBm		
14 (1)	Freq	15.750 MHz		.07 dB		
2 (1)	Freq	5.249250 GHz	-65.3	3 dBm		

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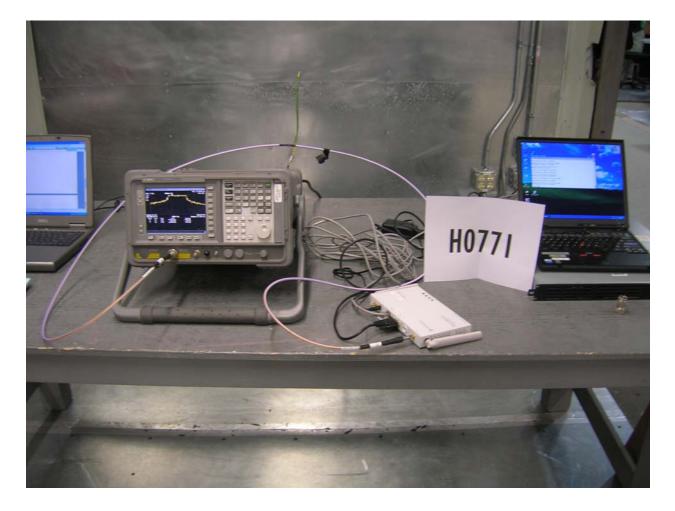




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Test Setup Photo



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Test Equipment Used

					REV.	29-JUN-2007	7
Spectrum Analyzers / Receivers	RANGE	MN	MFR	SN	ASSET	Сат	CALIBRATION DUE
Red	9kHz-1.8GHz	8591E	Agilent	3441A03559	00024		08-JAN-2008
WHITE	9kHz-22GHz	8593E	Agilent	3547U01252	00022	I	06-OCT-2007
BLUE	9kHz-1.8GHz	8591E	Agilent	3223A00227	00070	I	18-DEC-2007
YELLOW	9kHz-2.9GHz	8594E	Agilent	3523A01958	00100	I	08-JUN-2008
GREEN	9kHz-26.5GHz	8593E	Agilent	3829A03618	00143	I	05-SEP-2007
BLACK	9kHz-12.8GHz	8596E	Agilent	3710A00944	00337	I	08-DEC-2007
TELECOM 3585A	20Hz-40.0MHz	3585A	Agilent	2504A05219	00030	I	15-FEB-2008
TELECOM 3585A	20Hz-40.0MHz	3585A	Agilent	1750A03418	00558	I	Out of Service
TELECOM 3585A	20Hz-40.0MHz	3585A	Agilent	1750A02762	01067	I	Out of Service
ORANGE	9kHz-26.5GHz	E4407B	Agilent	US39440975	00394	I	Out of Service
BROWN (RENTAL)	9kHz-26.5GHz	E4407B	Agilent	SG44210511	Rental	I	01-FEB-2008
EMI TEST RECEIVER	20-1000MHz	ESVS30	R&S	827957/001	01098	I	27-OCT-2008
RENTAL 7405A	100Hz-26.5 GHz	E7405A	Agilent	MY44212795	Rental	I	28-DEC-2007

All equipment is calibrated using standards traceable to NIST or other nationally recognized calibration standard.

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Conditions Of Testing

[Bureau Veritas Consumer Products Services, Inc., a Massachusetts corporation], and/or its affiliates (collectively, the "Company") will conduct, at the request of the Submitter ("Client"), the tests specified on the submitted Test Request Form or equivalent in accordance with, and subject to, the following terms and conditions (collectively, "Conditions"):

1. All orders for tests are subject to acceptance by the Company, and no order will constitute a binding commitment of the Company unless and until such order is accepted by it, as evidenced by the issuance of a written report ("**Test Report**") by the Company. The Test Report is issued solely by the Company, is intended for the exclusive use of Client and shall not be published, used for advertising purposes, copied or replicated for distribution to any other person or entity or otherwise publicly disclosed without the prior written consent of the Company. By submitting a request for services to the Company, Client consents to the disclosure to accreditation bodies of those records of Client relevant to the accreditation body's assessment of the Company's competence and compliance with relevant accreditation criteria. The Company shall not be liable for any loss or damage whatsoever resulting from the failure of the Company to provide its services within any time period for completion estimated by the Company. If Client anticipates using the Test Report in any legal proceeding, arbitration, dispute resolution forum or other proceeding, it shall so notify the Company prior to submitting the Test Report in such proceeding. The Company has no obligation to provide a fact or expert witness at such proceeding unless the Company agrees in advance to do so for a separate and additional fee.

2. The Test Report will set forth the findings of the Company solely with respect to the test samples identified therein. Unless specifically and expressly indicated in the Test Report, the results set forth in such Test Report are not intended to be indicative or representative of the quality or characteristics of the lot from which a test sample is taken, and Client shall not rely upon the Test Report as being so indicative or representative of the lot or of the tested product in general. The Test Report will reflect the findings of the Company shall have no obligation to update the Test Report after its issuance. The Test Report will set forth the results of the tests performed by the Company based upon the written information provided to the Company. The Test Report will be based solely on the samples and written information submitted to the Company by Client, and the Company shall not be obligated to conduct any independent investigation or inquiry with respect thereto.

3. The Company may, in its sole discretion, destroy samples which have been furnished to the Company for testing and which have not been destroyed in the course of testing. The Company may delegate the performance of all or a portion of the services contemplated hereunder to an affiliate, agent or subcontractor of the Company, and Client consents to such delegation.

4. These Conditions and the Test Report represent the entire understanding of the parties hereto with respect to the subject matter hereof and of the Test Report, and no modification, variance or extrapolation with respect thereto shall be permitted without the prior written consent of the Company.

5. The names, service marks, trademarks and copyrights of the Company and its affiliates, including the names "BUREAU VERITAS," "BUREAU VERITAS CONSUMER PRODUCTS SERVICES," "BVCPS", "MTL", "ACTS", "MTL-ACTS" and CURTIS-STRAUS (collectively, the "Marks") are and shall remain the sole property of the Company or its affiliates and shall not be used by Client except solely to the extent that Client obtains the prior written approval of the Company and then only in the manner prescribed by the Company. Client shall not contest the validity of the Marks or take any action that might impair the value or goodwill associated with the Marks or the image or reputation of the Company or its affiliates.

6. Payment in full shall be due 30 days after the date of invoice. Interest shall be due on overdue amounts from the due date until paid at an interest rate of 1.5% per month or, if less, the maximum rate permitted by law. The Company reserves the right, at any time and from time to time, to revoke any credit extended to Client. Client shall reimburse the Company for any costs it incurs in collecting past due amounts, including court costs and fees and expenses of attorneys and collection agencies. The Test Report may not be used or relied upon by Client if and for so long as Client fails to pay when due any invoice issued by the Company or any affiliate of it to Client or any affiliate or subsidiary of Client together with interest and penalties, if any, accrued thereon.
7. The Company disclaims any and all responsibility or liability arising out of or in connection with e-mail transmissions of such information.

8. Client understands and agrees that the Company is neither an insurer nor a guarantor, that the Company does not take the place of Client or any designer, manufacturer, agent, buyer, distributor or transportation or shipping company, and that the Company disclaims all liability in such capacities. Client further understands that if it seeks assurance against loss or damage, it should obtain appropriate insurance.

9. Client agrees that the Company, by providing the services, does not take the place of Client nor any third party, nor does the Company release them from any of their obligations, nor does the Company otherwise assume, abridge, abrogate or undertake to discharge any duty of any third party to Client or any duty of Client or any third party to any other third party, and Client will not release any third party from its obligations and duties with respect to the tested goods.

10. Client shall, on a timely basis, (a) provide adequate instructions to the Company in order to enable the Company to perform properly its services, (b) provide, or cause Client's suppliers and contractors to provide, the Company with all documents necessary to enable the Company to perform its services, (c) furnish the Company with all relevant information regarding Client's intended use and purposes of the tested goods, (d) advise the Company of essential dates and deadlines relevant to the tested goods and (e) fully exercise all rights and remedies available to Client against third parties in respect of the tested goods.

11. The Company shall undertake due care and ordinary skill in the performance of its services to Client, and the Company shall accept responsibility only were such skill has not been exercised and, even in such event, only to the extent of the limitation of liability set forth herein.

12. If Client desires to assert a claim arising from or relating to (i) the performance, purported performance or non-performance of any services by the Company or (ii) the sale, resale, manufacture, distribution or use of any tested goods, it must submit that claim to the Company in a writing that sets forth with particularity the basis for such claim within 60 days from discovery of the potential claim and not more than six months after the date of issuance of the Test Report to Client. Client waives any and all such claims including, without limitation, claims that the Test Report is inaccurate, incomplete or misleading or that additional or different testing is required, unless and then only to the extent that Client submits a written claim to the Company within both such time periods.

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13. CLIENT SHALL, EXCEPT TO THE EXTENT OF COMPANY'S LIABILITY TO CLIENT HEREUNDER (WHICH IN NO EVENT SHALL EXCEED THE LIMITATION OF LIABILITY HEREIN), HOLD HARMLESS AND INDEMNIFY THE COMPANY, ITS AFFILIATES AND THEIR RESPECTIVE DIRECTORS, OFFICERS, EMPLOYEES, AGENTS AND SUBCONTRACTORS AGAINST ALL ACTUAL OR ALLEGED THIRD PARTY CLAIMS FOR LOSS, DAMAGE OR EXPENSE OF WHATSOEVER NATURE AND HOWSOEVER ARISING FROM OR RELATING TO (i) THE PERFORMANCE, PURPORTED PERFORMANCE OR NON-PERFORMANCE OF ANY SERVICES BY THE COMPANY OR (ii) THE SALE, RESALE, MANUFACTURE, DISTRIBUTION OR USE OF ANY TESTED GOODS.

14. EXCEPT AS MAY OTHERWISE BE EXPRESSLY AGREED TO IN WRITING BY THE COMPANY AND NOTWITHSTANDING ANY PROVISION TO THE CONTRARY CONTAINED HEREIN OR IN ANY TEST REPORT, NO WARRANTY OR GUARANTEE, EXPRESS OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR USE, IS MADE.

15. (A) IN NO EVENT WHATSOEVER SHALL THE COMPANY BE LIABLE FOR ANY CONSEQUENTIAL, SPECIAL, INCIDENTAL, EXEMPLARY OR PUNITIVE DAMAGES IN CONNECTION WITH, RELATING TO OR ARISING OUT OF THE TEST REPORT OR THE SERVICES PROVIDED BY THE COMPANY HEREUNDER, INCLUDING WITHOUT LIMITATION LOSS OF OR DAMAGE TO PROPERTY; LOSS OF INCOME, PROFIT OR USE; OR ANY CLAIMS OR DEMANDS MADE AGAINST CLIENT OR ANY OTHER PERSON BY ANY THIRD PARTY IN CONNECTION WITH, RELATING TO OR ARISING OUT OF THE SERVICES PROVIDED BY THE COMPANY HEREUNDER.

(B)NOTWITHSTANDING ANY PROVISION TO THE CONTRARY CONTAINED HEREIN, AND IN RECOGNITION OF THE RELATIVE RISKS AND BENEFITS TO CLIENT AND THE COMPANY ASSOCIATED WITH THE TESTING SERVICES CONTEMPLATED HEREBY, THE RISKS HAVE BEEN ALLOCATED SUCH THAT UNDER NO CIRCUMSTANCES WHATSOEVER SHALL THE LIABILITY OF THE COMPANY TO CLIENT OR ANY THIRD PARTY IN RESPECT OF ANY CLAIM FOR LOSS, DAMAGE OR EXPENSE, OF WHATSOEVER NATURE OR MAGNITUDE, AND HOWSOEVER ARISING, EXCEED AN AMOUNT EQUAL TO FIVE (5) TIMES THE AMOUNT OF THE FEES PAID TO THE COMPANY FOR THE SPECIFIC SERVICES WHICH GAVE RISE TO SUCH CLAIM OR U.S.\$10,000, WHICHEVER IS THE LESSER AMOUNT.

16. The Company shall not be liable for any loss or damage resulting from any delay or failure in performance of its obligations hereunder resulting directly or indirectly from any event of force majeure or any event outside the control of the Company. If any such event occurs, the Company may immediately cancel or suspend its performance hereunder without incurring any liability whatsoever to Client.

17. Company's services, including these Conditions, shall be governed by, and construed in accordance with, the local laws of the country where the Company performs the tests or, in the case of tests performed in the United States of America, the laws of Massachusetts without regard to conflicts of laws principles. If any aspect(s) of these Conditions is found to be illegal or unenforceable, the validity, legality and enforceability of all remaining aspects of these Conditions shall not in any way be affected or impaired thereby. Any proceeding related to the subject matter hereof shall be brought, if at all, in the courts of the country where the Company performs the tests or, in the case of tests performed in the United States of America, in the courts of Massachusetts. Client waives the right to interpose any counterclaim or setoffs of any nature in any litigation arising hereunder.

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A2LA Accreditation

SCOPE OF ACCREDITATI	ON TO ISO/IEC 17025-1999	Immunity Electrostatic Discharge (ESD)	RRL No. 2005-130 (December 27, 2005) EN 61000-4-2; AS/NZS 61000-4.2; KN61000-4-2
	STRAUS ¹ eat Road	Radiated Immunity (RFI) Electrical Fast Transient Bursts (EFT)	EN 61000-4-3, AS/NZS 61000.4.3; KN61000-4-3 EN 61000-4-4; AS/NZS 61000.4.4; KN61000-4-4
Littleton,	MA 01460 one: 978-486-8880	Surge Conducted Immunity	EN 61000-4-5, AS/NZS 61000.4.5; KN61000-4-5 EN 61000-4-6, AS/NZS 61000.4.6; KN61000-4-6
	RICAL	Magnetic Immunity Voltage Dips and Interrupts	EN 61000-4-8; AS/NZS 61000.4.8; KN61000-4-7 EN 61000-4-11; KN61000-4-11
Valid until: July 31, 2007	Certificate Number: 1627.01	Low Frequency Conducted Disturbances	EN 61000-2-2
In recognition of the successful completion of the A2LA laboratory to perform the following Electromagnetic Cor Safety tests:	evaluation process, accreditation is granted to this npatibility (EMC), Telecommunications, and Product	Family Product or Industry Specific Specificati including emissions and/or immunity	ons GR-1089-CORE; GR-78-CORE (ESD) EN50081-1; EN50081-2; EN50082-2; EN50082-1; EN 61000-6-1; EN 61000-6-2; EN 61000-6-3; EN 61000-6-4; EN 50091-2; EN 55024; CISPR 24
Electromagnetic Compatibility (EMC) Radiated emissions testing (electric and magnetic fields) Electrostatic Discharge testing*; Electrical Fast Transien Immunity testing*; Lightning Immunity testing*; Voltag Magnetic Immunity testing*; RF Power measurements*; Induction measurements*; Harmonic emissions testing*; voltage testing*; Disturbance Power measurements*; Por	t testing*: Radiated Immunity testing*; Conducted e Dips*, Interrupts and Voltage Variations testing*; Frequency Stability Measurements*; Longitudinal Light flicker testing*; Low frequency disturbance wer Cross Overvoltage testing*;		EN 55103-1; EN 55103-2; EN 61326; EN 61547; EN 50130-4; EN 5008-2; EN 60601-1-2; EN 60601-2-2; EN 60601-2-24; EN 60601-2-32; EN 60601-2-33; EN 60601-2-247; IEC 1800-3; EN 61800-3; EN 55020; CISPR 20; EN 60555 Part 2; EN 60555 Part 3; ETS 300 386-1; EN 300 386-2; EN 300 386, ETS 300 132-1; ETS 300 132-2; EN 60669-2-1; AS/NZS 3200-1.2; CNS 13783-1; ETR
Test Type Emissions	Test Method(s)	Radiocommunications	283; C62.41
Radiated and Conducted Emissions	FCC 47 CFR Parts 15 & 18; C63.4; CISPR 22; EN55022; SABS CISPR 22; AS/NZS CISPR 22; AS/NZS 3548; Canada ICES-	EU R&TTE Radio Standards;	EN 300 220-1; EN 300 220-3; EN 300 330-1; EN 300 330-2; EN 300 440-1; EN 300 440-2; EN 300 328; EN 300 385; EN 301 893
	003; CNS13438; KN 22 (RRL No. 2005-82, September 29, 2005); CISPR 11; EN 55011; SABS	EU R&TTE EMC Standards	EN 300 339; EN 301 489-01; EN 301 489-03; EN 301 489-17
	CISPR 11; AS/NZS CISPR 11; AS/NZS 2064; Canada ICES-001; CNS13803; CISPR 13; EN 55013; SABS CISPR 13; AS/NZS CISPR 13; AS/NZS 1035; CISPR 14; L; EN 55014-1; SABS CISPR 14; AS/NZS CISPR 14; AS/NZS 1044; CNS 13439; CISPR 15; EN 55015; GR-1089-	Canada Radio Standards	RSS-102; RSS-117; RSS-118; RSS-119; RSS-123; RSS-125; RSS-128; RSS-129; RSS-130; RSS-131; RSS-132; RSS-133; RSS-134; RSS-135; RSS-136; RSS-137; RSS-138; RSS-141; RSS-185; RSS-170; RSS-181; RSS-182; RSS-187; RSS-188; RSS-191; RSS-192; RSS-193; RSS-195; RSS-210; RSS-212;
Harmonics	CORE; CSA C108.8-M1983; EN 61000-3-2; AS/NZS 61000.3.2		RSS-213; RSS-215; RSS-243; RSS-GEN; RSS- 310; GL-36;
Flicker 1 Note: This accreditation covers testing performed at the		Australia/New Zealand Radio Standards	AS/NZS 4268; AS/NZS 4771; RFS29; Radiocommunications (Data Transmission Equipment Using Spread Spectrum Modulation Techniques);
located at 168 Ayer Rd, Littleton, MA 01460 and, for tes defined in "A2LA specific criteria for the accreditation of	I types marked with an asserts, at other sites as of site testing and site calibration laboratories."		Radiocommunications (Spread Spectrum Devices); Radiocommunications (Short Range Devices); Radiocommunications (Low Interference Potential Devices);
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Other Radio Standards	RTTE 01 (DGT-Taiwan);	Telecommunications	
FCC Standards and Test methods Support TCB St	atus	Signal power (metallic and longitudinal)*; Freque	ethods; Lightning surge*; Drop testing*; Balance testing*; ncy measurements*; Pulse templates*; Leakage testing*;
FCC Scope A – Unlicensed Radio Frequency Devices A1 1.47 CFR Parts 11, 15 and 18		Impedance testing*; Hearing Aid Compatibility te testing*.	sting (excluding volume control)*; Protocol analysis* and Jitter
2. FCC MP-5, 3. ANSI C63.4-2003,		Telecom Standards	Title
A2 1. 47 CFR Part 15, 2. ANSI C63.4-2003,		North American standards FCC 47 CFR Part 68 Telephone	Connection of terminal equipment to the telephone
A3 1. 47 CFR Part 15, 2. ANSI C63.17-1998, 3. ANSI C63.4-2003,		Terminal Equipment CS-03 Issue 9	network. Analog and Digital Equipment. TCB Scope C1. Specification for terminal equipment, terminal systems, Network protection devices, connection arrangements and
A4 1. 47 CFR Part 15, 2. ANSI C63.4-2003,		TIA/EIA TSB31-B 1998	hearing aids compatibility. Bulletin Part 68 Rationale and Measurement Guidelines
FCC Scope B – Licensed Radio Service Equipment B1 1. 47 CFR Parts 2, 22, 24, 25, and 22	7	TIA-968-A, A1, A2, A3	(Feb 1998) Telecommunications Telephone Terminal
2. ANSI/TIA-603-C (2004) B2 1. 47 CFR Parts 2, 22, 74, 90, 95, and	ad 97		Equipment Technical Requirements for Connection of Terminal Equipment to the Telephone Network
2. ANSI/TIA-603-C (2004) B3 1. 47 CFR Parts 2, 80, and 87		T1.TRQ.6-2001	Technical Requirements for SHDSL, HDSL2, HDSL4 Digital Subscriber Line Terminal Equipment
2. ANSI/TIA-603-C (2004) B4 1. 47 CFR Parts 2, 21, 74, and 101		Australia standards	to Prevent Harm to the Telephone Network Industry
2. ANSI/TIA-603-C (2004)		AS/ACIF S002-2001	Analogue interworking and non-interference requirements for Customer Equipment for connection to the
Country Specific Standards and Other ITU EMC Standards	K.20; K.21; K.41; K.44	AS/ACIF S016-2001	Public Switched Telephone Network Requirements for Customer Equipment for
Swedish EMC Standards South African EMC Standards other then CISPR	BAKOM 3336.3 SABS 1718-1; SANS 211/SABS CISPR 11;	AS/ACIF S031-2001	connection to hierarchical digital interfaces Requirements for ISDN Basic Access Interface
South African EMC Standards other then CISPK equivalents	SABS 1/18-1; SANS 211/SABS (LISPR 11; SANS 224/SABS CISPR 124; SANS 213/SABS CISPR 13; SANS 2200; SANS214-1/SABS CISPR 14-1; SANS214-2/SABS CISPR 14-2; SANS 215/SABS CISPR 15;	AS/ACIF S038-2001 AS/ACIF S043-2001	Requirements for ISDN Primary Rate Access Interface Requirements for Customer Equipment for Connection to a Metallic Local Loop Interface of a Telecommunications Network — Part 1: General
Hans Kans FMC Samela	SANS 222/SABS CISPR 22		Part 2: Broadband Part 3: DC, Low Frequency AC and Voice band
Hong Kong EMC Standards	HKTA 1006; HKTA 1007; HKTA 1008; HKTA 1010; HKTA 1015; HKTA 1026; HKTA 1035; HKTA 1039; HKTA 1041; HKTA 1042; HKTA 1045	International standards ITU-T G.703	Physical/electrical characteristics of hierarchical Digital interfaces
Singapore EMC Standards	IDA TS SRD; IDA TS EMC VCCI V-3, VCCI V-4	Hong Kong standards HKTA 2011	Network Connection Specification for Connection of
Japanese VCCI Standards	VCCI V-3, VCCI V-4	HKTA 2014	Customer Premises Equipment (CPE) to Direct Exchange Lines (DEL) of the Public Switched Telephone Network (PSTN) in Hong Kong Network Connection Specification for Connection of Customer Premises Equipment (CPE) to the Public Telecommunications Network (PTN) in Hong Kong using ISDN Basic Rate Access (BRA) based on ITU-T Recommendations
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Telecom Standards	<u>Title</u>	European standards (cont'd)	Taminal Eminment (TE). Arrest market
HKTA 2028	Network connection specification for connection of CPE to the PTNs in Hong Kong using digital leased	TBR 21: 1998	Terminal Equipment (TE); Attachment requirements For pan-European approval for connection to the
	circuits at data rate of 1544 kbit/s		Analogue Public Switched Telephone Networks
HKTA 2029	Network connection specification for connection of		(PSTNs) of TE (excluding TE supporting the voice
	CPE to the PTNs in Hong Kong using digital leased		telephony service) in which network addressing, if
HKTA 2030	circuits at data rate of 2048 kbit/s		provided, is by means of Dual Tone Multi Frequency
HK1A 2030	Network Connection Specification for Connection of Customer Premises Equipment (CPE) to the Public	TBR 24: 1997	(DTMF) signaling Business TeleCommunications (BTC); 34 Mbit/s
	Telecommunications Network (PTN) in Hong Kong using	IBR 24. 1997	Digital Unstructured and structured leased lines
	Digital Leased Circuits at nx64 kbit/s		(D34U and D34S); Attachment requirements for
HKTA 2031	Network Connection Specification for Connection of		Terminal equipment interface
	Customer Premises Equipment (CPE) to the Public	Taiwan standards (DGT)	
	Telecommunications Network (PTN) in Hong Kong using Digital Leased Circuits below 64 kbit/s	ADSL01	Asymmetric Digital Subscriber Line Terminal Equipment and POTS Splitter Technical Specifications
HKTA 2032	Network Connection Specification for Connection of	ID0002	DS1 Equipment Type Approval Guidelines
	Customer Premises Equipment (CPE) to the Public	IS6100	ISDN Terminal Equipment Technical Specifications
	Telecommunications Networks in Hong Kong using	PSTN01 (non-voice only)	Technical Specifications for Terminal Equipment for
	Asymmetric Digital Subscriber Lines (ADSL) based on ITU-T Recommendation G.992.1	New Zealand standards	Connection to Public Switched Telephone Network
HKTA 2033	Network Connection Specification for Connection of	PTC 200 (non-voice only)	Requirements for Connection of Customer Equipment to
	Customer Premises Equipment (CPE) to Fixed		Analogue Lines
	Telecommunications Networks in Hong Kong using	PTC 217	Requirements for Bandwidth Management Devices
	Splitterless Asymmetric Digital Subscriber Lines (ADSL)	TNA 117	Telecom 2048 kbit/s Standard Network Interface
European standards	based on ITU-T Recommendation G.992.2	PTC 270	Interim arrangements for ADSL CPE
FBR 1: 1995	Attachment requirements for terminal equipment to	Singapore Standards	
	Be connected to circuit switched data networks and	IDA TS ADSL	Type Approval Specification for Asymmetric Digital
	Leased circuits using a CCITT Recommendation		Subscriber Line (Full-rate ADSL) Modems
	X.21 interface, or at an interface physically,	IDA TS ADSL 2	Type Approval Specification for Asymmetric Digital
	functionally and electrically compatible with CCITT Recommendation X.21 but operating at any data	IDA TS DLCN 1	Subscriber Line Splitterless (G-Lite) Modems Type Approval Specification for Digital Interfaces based on
	signaling rate up to, and including, 1 984 kbit/s	IST IS DECIVI	hierarchical bit rates of 2048 kbit/s, 34 368 kbit/s and 139 26
TBR 2: 1997	Attachment requirements for Data Terminal		kbit/s
	Equipment (DTE) to connect to Packet Switched	IDA TS ISDN 1	Type Approval Specification for connection of Terminal
	Public Data Networks (PSPDNs) for CCITT		Equipment to Integrated Services Digital Network (ISDN)
	Recommendation X.25 interfaces at data signaling rates up to 1 920 kbit/s utilizing interfaces derived	IDA TS ISDN 2	Basic Access Type Approval Specification for connection of Terminal
	from CCITT Recommendations X.21 and X.21 bit		Equipment to Integrated Services Digital Network (ISDN)
TBR 3: 1995 + Amdt : 1997	Integrated Services Digital Network (ISDN);		Primary Rate Access (PRA)
	Attachment requirements for terminal equipment to	IDA TS PSTN (non-voice only)	Type Approval Specification for connection of Terminal
FDB 4, 1005 - A 4 - 1007	connect to an ISDN using ISDN basic access Integrated Services Digital Network (ISDN);	Saude Africa atom danda	Equipment to Public Switched Telephone Network (PSTN)
TBR 4: 1995 + Amdt : 1997	Attachment requirements for terminal equipment to	South Africa standards TE-001 (non-voice only)	Standard for Telecommunication Line Terminal Equipment
	connect to an ISDN using ISDN primary rate access	TE out (non voice only)	(TLTE) for Connection to the Public Switched Telephone
TBR 012: 1993 + Amdt : 1996	Business Telecommunications (BT); Open Network		Network (PSTN)
	Provision (ONP) technical requirements; 2 048 kbit/s		
	digital unstructured leased line (D2048U) Attachment requirements for terminal equipment		
TBR 013: 1996	Business TeleCommunications (BTC); 2 048 kbit/s		
	digital structured leased lines (D2048S); Attachment		
	digital structured leased lines (D2048S); Attachment requirements for terminal equipment interface		
(A2LA Cert. No. 1627.01) 3/27/06		(A2LA Cert. No. 1627.01) 3/27/06 Product Safety Standards	Page 6 of 10 <u>Title</u>
Product Safety General test methods: Power input*, Permanence of marking*, Acc measurement*, SELV circuits*, TNV limits* imitation*, Ring signal*, Humidity conditio CTI)*, Limited power measurement*, Groun Applied force*, Steel sphere impact*, Mold s Component abnormal*, Electric strength*, In Iame*, Needle Iame*, Hot Iaming oil*, Loc	requirements for terminal equipment interface Page 5 of 10 essibility*, Permissibly limits*, Energy hazard , Limited current*, Capacitor Discharge / voltage ing*, Greepage / Clearance / Distance thru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperture*, Stability*, tress*, Battery reverse current*, Ball pressure*, Ladkage current*, pulse*, Overvoltage*, Acoustic sound pressure*, ISom/ 20nm ked roto/motor armature*, Vibration, Bump, Drop*, Stratin relief*.	Product Safety Standards IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040.10 IEC 60335-1 1995 (Including AM2 – 1997 & AM 12 – 1997) EN 60335-1 2001	-
Product Safety General test methods: Power input*, Permanence of marking*, Acc measurement*, SELV circuits*, TNV limits* limitation*, Ring signal*, Humidity condition CTD*, Limited power measurement*, Groun Applied force*, Steel sphere impact*, Mold 3 Component abnormal*, Electric strength*, In flame*, Needle flame*, Hot flaming 01*, Lo Torque*, Insulation resistance*, Sound level Transformer shorts/overloads*, Rain test*, W Functionality*, Protective impedance abnorn	requirements for terminal equipment interface Page 5 of 10 essibility*, Permissibly limits*, Energy hazard , Limited current*, Capacitor Discharge / voltage ing*, Creepage / Clearance / Distance thru Insulation (excluding d Bond/Earthing*, Ground continuity*, Temperature*, Stability*, tress*, Battery reverse current*, Ball pressure*, Laskage current*, pulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm kad rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, / Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, all mount*, Laser radiation (excluding x-ray)*, Voltage surge*, all*, Capacitor short circuit abormal*, Output abormal*, Multi-	Product Safety Standards IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040.10 IEC 60335-1 1995 (Including AM2 – 1997 & AM 12 – 1997)	Title Classification, requirements and user's guide. Safety of laser products – Part 2: Safety of optical communication systems Safety of laser products – Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements Electrical equipment for laboratory use; part 1: General
Product Safety General test methods: Power input*, Permanence of marking*, Acc measurement*, SELV circuits*, TNV limits* limitation*, Ring signal*, Humidity condition CTI)*, Limited power measurement*, Groun Applied force*, Steel sphere impact*, Mold 5 Component abnormal*, Electric strength*, In lame*, Needle fiame*, Hot fiaming 01*, Lo Torque*, Insulation resistance*, Sound level Transformer shorts/overloads*, Rain test*, W Functionality*, Protective impedance abnorn	requirements for terminal equipment interface Page 5 of 10 essibility*, Permissibly limits*, Energy hazard Limited current*, Capacitor Discharge / voltage ing*, Creepage / Clearance / Distance thru Insulation (excluding Bond/Earthing*, Ground comtinuity*, Temperture*, Stability*, tress*, Battery reverse current*, Ball pressure*, Leakage current*, puble*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm exed rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, , Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, all mount*, Laser radiation (excluding x-ray)*, Voltage surge*,	Product Safety Standards IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040, 10 IEC 60335-1 1997 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 1998 CAN/CSA E335-1 1994 UL 61010A-1: 2002	Title Classification, requirements and user's guide. Safety of laser products - Part 2: Safety of optical communication systems Safety of laser products - Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements Electrical equipment for laboratory use; part 1: General requirements
Product Safety General test methods: Power input ⁹ , Permanence of marking ⁸ , Acc measurement ⁸ , SELV circuits ⁸ , TNV limits ⁸ miniation ⁸ , Ring signal ⁸ , Humidity condition CTI) ⁹ , Limited power measurement ⁸ , Groun Applied force ⁹ , Steel sphere impact ⁸ , Mold s Component abnormal ⁸ , Electric strength ⁸ , In Iame ⁸ , Needle Hame ⁸ , Hot Haming oil ⁹ , Loo Forque ⁸ , Insulation resistance ⁸ , Sound level ¹ Transformer shorts/overloads ⁹ , Rain test ⁸ , W Functionalit ⁹ , Protective impedance abnorm upply abnormal ⁸ , Cooling abnormal ⁸ , Heati	requirements for terminal equipment interface Page 5 of 10 Essibility*, Permissibly limits*, Energy hazard Limited current*, Capacitor Discharge / voltage ining*, Creepage / Clearance / Distance thru Insulation (excluding d Bond/Earthing*, Ground continuity*, Temperature*, Stability*, tress*, Battery reverse current*, Ball pressure*, Lackage current*, pulse*, Overvoltage*, Acoustic sound pressure*, Lackage current*, pulse*, Overvoltage*, Acoustic sound pressure*, I 30mm / 20mm ked rotor/motor armature*, Vibration, Bump, Drop*, Strain Fellet*, *, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, all mount*, Laser radiation (excluding x-ray)*, Voltage surge*, all*, Capacitor short circuit abormal*, Output abormal*, Multi- ng device abnormal*, Interlock abnormal*, Rigidity*, Cleaning*	Product Safety Standards IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040.10 IEC 60335-1 1995 (Including AM2 – 1997 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 1994	Title Classification, requirements and user's guide. Safety of laser products – Part 2: Safety of optical communication systems Safety of laser products – Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements Electrical equipment for laboratory use; part 1: General requirements Safety of quirements for electrical equipment for
Product Safety General test methods: Power input*, Permanence of marking*, Acc measurement*, SELV circuits*, TNV limits* imitation*, Ring signal*, Humidity condition CTI)*, Limited power measurement*, Groun Applied force*, Steel sphere impact*, Mold s Component abnormal*, Electric strength*, In Iame*, Needle Ham*, Hot Haming oil*, Loo Torque*, Insulation resistance*, Sound level Transformer shorts/overloads*, Rain test*, W "unctionality*, Protective impedance abnorm supply abnormal*, Cooling abnormal*, Heati Product Safety Standards.	requirements for terminal equipment interface Page 5 of 10 essibility*, Permissibly limits*, Energy hazard , Limited current*, Capacitor Discharge / voltage ing*, Creepage / Clearance / Distance thru Insulation (excluding d Bond/Earthing*, Ground continuity*, Temperature*, Stability*, tress*, Battery reverse current*, Ball pressure*, Laskage current*, pulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm kad rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, / Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, all mount*, Laser radiation (excluding x-ray)*, Voltage surge*, all*, Capacitor short circuit abormal*, Output abormal*, Multi-	Product Safety Standards IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-2 2000-5 IEC 60825-3 1997-11 21 CFR 1040.10 IEC 60335-1 1995 (Including AM2 - 1997 & AM 12 - 1997) EN 60335-1 1908 CAN/CSA E335-1 1994 UL 6010A-1: 2001	Title Classification, requirements and user's guide. Safety of laser products – Part 2: Safety of optical communication systems Safety of laser products – Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements Electrical equipment for laboratory use; part 1: General requirements Safety of quirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements
Product Safety General test methods: Power input*, Permanence of marking*, Acc measurement*, SELV circuits*, TNV limits* imitation*, Ring signal*, Humidity condition CTI)*, Limited power measurement*, Groun Applied force*, Steel sphere impact*, Mold s Component abormal*, Electric strength*, In Ilame*, Needle flame*, Hot flaming oil*, Lo Torque*, Insulation resistance*, Sound level Transformer shorts/overloads*, Rain test*, W Functionality*, Protective impedance abnorn supply abnormal*, Cooling abnormal*, Heati Product Safety Standards Specific Product Safety Standards	requirements for terminal equipment interface Page 5 of 10 essibility*, Permissibly limits*, Energy hazard , Limited current*, Capacitor Discharge /voltage ing*, Creepage / Clearance / Distance trun Insulation (excluding d Bond/Earthing*, Ground continuity*, Temperature*, Stability*, tress*, Battery reverse current*, Ball pressure*, Loakage current*, puble*, Overvoltage*, Acoustic sound pressure*, 130m / 20mm ked rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, - Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, all*, Capacitor short circuit abormal*, Output abormal*, Multi- ng device abnormal*, Interlock abnormal*, Rigidity*, Cleaning* <u>Title</u>	Product Safety Standards IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040.10 IEC 60335-1 1995 (Including AM2 – 1997 & AM 12 – 1997) EN 60335-1 1998 CAN/CSA E335-1 1994 UL 61010A-1: 2002 EN 61010-1: 2001 AS/NZS 60950: 2000	Title Classification, requirements and user's guide. Safety of laser products – Part 2: Safety of optical communication systems Safety of laser products – Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements Electrical equipment for laboratory use; part 1: General requirements Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology equipment
Product Safety General test methods: Power input ⁹ , Permanence of marking ⁸ , Acc measurement ⁸ , SELV circuits ⁸ , TNV limits ⁸ imitation ⁹ , Ring signal ⁸ , Humidity conditio CTI) ⁹ , Limited power measurement ⁹ , Groun Applied force ⁸ , Steel sphere impact ⁸ , Mold s Component abnormal ⁸ , Electric strength ⁹ , In Ilame ⁸ , Needle flame ⁸ , Hot flaming oil ⁹ , Lo Forque ⁸ , Insulation resistance ⁸ , Sound level Transformer shorts/overloads ⁹ , Rain test ⁸ , W Functionality ⁸ , Protective impedance abnorn supply abnormal ⁸ , Cooling abnormal ⁸ , Heati Product Safety Standards Specific Product Safety Standards UL 60950 2000	requirements for terminal equipment interface Page 5 of 10 essibility*, Permissibly limits*, Energy hazard , Limited current*, Capacitor Discharge / voltage ing*, Crepage / Clearance / Distance thru Insulation (excluding Bond'Earthing*, Ground cominuity*, Temperature*, Stability*, tress*, Battery reverse current*, Ball pressure*, Leakage current*, publes*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ked rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, , Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, all mount*, Laser radiation (excluding x-ray)*, Voltage surge*, all*, Capacitor short circuit abnormal*, Output abnormal*, Multi- ng device abnormal*, Interlock abnormal*, Rigidity*, Cleaning* <u>Title</u> Safety of information technology equipment	Product Safety Standards IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-2 2000-5 IEC 60825-3 1997-11 21 CFR 1040.10 IEC 60335-1 1995 (Including AM2 - 1997 & AM 12 - 1997) EN 60335-1 1908 CAN/CSA E335-1 1994 UL 6010A-1: 2001	Title Classification, requirements and user's guide. Safety of laser products - Part 2: Safety of optical communication systems Safety of laser products - Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements Electrical equipment for laboratory use; part 1: General requirements Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology equipment Information Technology Equipment - Safety - Part1:
Product Safety General test methods: Power input*, Permanence of marking*, Acc measurement*, SELV circuits*, TNV limits* imitation*, Ring signal*, Humidity condition CTI)*, Limited power measurement*, Groun Applied force*, Steel sphere impact*, Mold 3 Component abnormal*, Electric strength*, In lame*, Needle flame*, Hot flaming oil*, Lo Torque*, Insulation resistance*, Sound level* Unctionality*, Protective impedance abnorm supply abnormal*, Cooling abnormal*, Heati Product Safety Standards Specific Product Safety Standards UL 60950 2000 EC 60950 1999	requirements for terminal equipment interface Page 5 of 10 essibility*, Permissibly limits*, Energy hazard , Limited current*, Capacitor Discharge /voltage ing*, Creepage / Clearance / Distance thru Insulation (excluding d Bond/Earthing*, Ground continuity*, Temperature*, Stability*, tress*, Battery reverse current*, Ball pressure*, Lackate ecurent*, puble*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ked rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, , Handle loading*, Laiqui overflow*, Spillage*, Liquid leakage*, all mount*, Laser radiation (excluding x-ray)*, Voltage surge*, all*, Capacitor short circuit abormal*, Output abormal*, Multi- ng device abnormal*, Interlock abnormal*, Rigidity*, Cleaning* <u>Title</u> Safety of information technology equipment Safety of information technology equipment	Product Safety Standards IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-2 2000-5 IEC 60825-3 1997.11 21 CFR 1040.10 IEC 60335-1 1995 (Including AM2 – 1997 & AM 12 – 1997) EN 60335-1 1998 CAN/CSA E335-1 1994 UL 60335-1 1994 UL 6010A-1: 2001 EN 61010-1: 2001 AS/NZS 60950: 2000 EN 60950-1: 2001	Title Classification, requirements and user's guide. Safety of laser products – Part 2: Safety of optical communication systems Safety of laser products – Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements Electrical equipment for laboratory use; part 1: General requirements Safety of formation technology equipment for measurement, control, and laboratory use - Part 1: General requirements Safety requirements Safety of formation technology equipment laformation Technology Equipment - Safety – Part1: General Requirements
Product Safety General test methods: "ower input", Permanence of marking", Acc neasurement", SELV circuits", TNV limits" imitation", Ring signal", Humidity condition CTD', Limited power measurement", Groun hyplied force", Steel sphere impact", Mold s Component abnormal", Electric strength", In Iname", Needle flame", Hot flaming oil*, Lo forque*, Insulation resistance", Sound level' Fransformer shorts/overloads*, Rain test*, W "auctionality", Protective impedance abnorn upply abnormal", Cooling abnormal*, Heati Product Safety Standards Specific Product Safety Standards JL 60950 1090 EC 60950 1090 EN 60950 2000	requirements for terminal equipment interface Page 5 of 10 essibility*, Permissibly limits*, Energy hazard , Limited current*, Capacitor Discharge / voltage ing*, Creepage / Clearance / Distance thru Insulation (excluding dl Bond'Earthing*, Ground continuity*, Temperature*, Stability*, tress*, Battery reverse current*, Ball pressure*, Lackage current*, publes*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ked rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, 'I Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, 'all mount*, Laser radiation (excluding x-ray)*, Voltage surge*, al*, Capacitor short circuit abnormal*, Augidity*, Cleaning* <u>Title</u> Safety of information technology equipment Safety of information technology equipment Safety of information technology equipment Safety of information technology equipment Safety of information technology equipment	Product Safety Standards IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040.10 IEC 60335-1 1995 (Including AM2 – 1997 & AM 12 – 1997) EN 60335-1 1998 CAN/CSA E335-1 1994 UL 61010A-1: 2002 EN 61010-1: 2001 AS/NZS 60950: 2000	Title Classification, requirements and user's guide. Safety of laser products - Part 2: Safety of optical communication systems Safety of laser products - Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements Electrical equipment for laboratory use; part 1: General requirements Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology equipment Information Technology Equipment - Safety - Part1:
Product Safety General test methods: Power input*, Permanence of marking*, Acc measurement*, SELV circuits*, TNV limits* imitation*, Ring signal*, Humidity condition CTI)*, Limited power measurement*, Groun Applied force*, Steel sphere impact*, Mold s Component abnormal*, Electric strength*, In Iame*, Needle flame*, Hot flaming oil*, Lo Torque*, Insulation resistance*, Sound level' Transformer shorts/overloads*, Rain test*, W Functionality*, Protective impedance abnorn upply abnormal*, Cooling abnormal*, Heati Product Safety Standards UL 60950 12000 EC 60950 12001 EC 60950 12003	requirements for terminal equipment interface Page 5 of 10 essibility*, Permissibly limits*, Energy hazard , Limited current*, Capacitor Discharge /voltage ing*, Creepage / Clearance / Distance thru Insulation (excluding d Bond/Earthing*, Ground continuity*, Temperature*, Stability*, tress*, Battery reverse current*, Ball pressure*, Lackate ecurent*, puble*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ked rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, , Handle loading*, Laiqui overflow*, Spillage*, Liquid leakage*, all mount*, Laser radiation (excluding x-ray)*, Voltage surge*, all*, Capacitor short circuit abormal*, Output abormal*, Multi- ng device abnormal*, Interlock abnormal*, Rigidity*, Cleaning* <u>Title</u> Safety of information technology equipment Safety of information technology equipment	Product Safety Standards IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-2 2000-5 IEC 60825-3 1997.11 21 CFR 1040.10 IEC 60335-1 1995 (Including AM2 – 1997 & AM 12 – 1997) EN 60335-1 1998 CAN/CSA E335-1 1994 UL 60335-1 1994 UL 6010A-1: 2001 EN 61010-1: 2001 AS/NZS 60950: 2000 EN 60950-1: 2001	Title Classification, requirements and user's guide. Safety of laser products – Part 2: Safety of optical communication systems Safety of laser products – Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements Electrical equipment for laboratory use; part 1: General requirements Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology equipment Information Technology Equipment – Safety – Part1: General Requirements Information Technology Equipment – Safety – General requirements Information Technology Equipment – Safety – General requirements Information Technology Equipment – Safety – General requirements
Product Safety General test methods: Power input*, Permanence of marking*, Acc measurement*, SELV circuits*, TNV limits* imitation*, Ring signal*, Humidity condition CTI)*, Limited power measurement*, Groun Applied force*, Steel sphere impact*, Mold 3 Component abnormal*, Electric strength*, In lame*, Needle flame*, Hot flaming oil*, Los forque*, Insulation resistance*, Sound level Transformer shorts/overloads*, Rain test*, W "unctionality", Protective impedance abnorm upply abnormal*, Cooling abnormal*, Heati Product Safety Standards Specific Product Safety Standards Lic 60950 2000 EEC 609501 2001 EC 609501 2001 UL 60950 2003 ESA 6022, Sca (222, 20, 60950-00	requirements for terminal equipment interface Page 5 of 10 essibility*, Permissibly limits*, Energy hazard , Limited current*, Capacitor Discharge / voltage ing*, Creepage / Clearance / Distance thru Insulation (excluding dl Bond'Earthing*, Ground continuity*, Temperature*, Stability*, tress*, Battery reverse current*, Ball pressure*, Lackage current*, publes*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ked rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, 'I Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, 'all mount*, Laser radiation (excluding x-ray)*, Voltage surge*, al*, Capacitor short circuit abnormal*, Augidity*, Cleaning* <u>Title</u> Safety of information technology equipment Safety of information technology equipment Safety of information technology equipment Safety of information technology equipment Safety of information technology equipment	Product Safety Standards IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-2 2000-5 IEC 60825-3 1997-11 21 CFR 1040.10 IEC 60325-1 1995 (Including AM2 - 1997 & AM 12 - 1997) EN 60335-1 1998 CAN/CSA E.335-1 1994 UL 6010A-1: 2002 EN 61010-1: 2001 AS/NZS 60950-2000 EN 60950-1: 2001 AS/NZS 60950.1: 2003 UL 61010-1: 2004	Title Classification, requirements and user's guide. Safety of laser products – Part 2: Safety of optical communication systems Safety of laser products – Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements Electrical equipment for laboratory use; part 1: General requirements Safety information technology equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology equipment - Safety – General Requirements Information Technology Equipment - Safety – General requirements Information Technology Equipment - Safety – General requirements Electrical Equipment for Measurement, Control and Laboratory Use; Part 1: General Requirements
Product Safety General test methods: Power input*, Permanence of marking*, Acc neasurement*, SELV circuits*, TNV limits* imitation*, Ring signal*, Humidty condition CTD)*, Limited power measurement*, Groun Applied force*, Steel sphere impact*, Mold s Component abornal*, Electric strength*, In Tame*, Needle flame*, Hot flaming oli*, Lo Torque*, Insulation resistance*, Sound level' Pransformer shorts/overloads*, Rain test*, W Functionality*, Protective impedance abnorm supply abnormal*, Cooling abnormal*, Heati Product Safety Standards Specific Product Safety Standards UL 60950 12000 EEC 60950 12003 EEC 60950 12003 ESA 602.22, No. 60950-103	requirements for terminal equipment interface Page 5 of 10 essibility*, Permissibly limits*, Energy hazard , Limited current*, Capacitor Discharge / voltage ing*, Creepage / Clearance / Distance thru Insulation (excluding d Bond/Earthing*, Ground continuity*, Temperature*, Stability*, tress*, Battery reverse current*, Ball pressure*, Loaka deakage current*, phales*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ked rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, - Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, fall mount*, Laser radiation (excluding x-ray)*, Voltage surge*, alt*, Capacitor short circuit abnormal*, Multi- ng device abnormal*, Interlock abnormal*, Rigidity*, Cleaning* <u>Title</u> Safety of information technology equipment Safety of information technology equipment, including Electrical business equipment.	Product Safety Standards IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-3 1995 IEC 60825-1 1995 IEC 60825-1 1995 IEC 60825-1 1995 (Including AM2 - 1997 & AM 12 - 1997) EN 60335-1 1995 (Including AM2 - 1997 & AM 12 - 1997) EN 60335-1 1994 UL 60103-1: 1994 UL 61010-1: 2001 AS/NZS 60950: 2000 EN 60950-1: 2001 AS/NZS 60950: 1: 2003	Title Classification, requirements and user's guide. Safety of laser products – Part 2: Safety of optical communication systems Safety of laser products – Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements Electrical equipment for laboratory use; part 1: General requirements Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology equipment Information Technology Equipment – Safety – Part1: General Requirements Information Technology Equipment – Safety – General requirements Electrical Equipment for Measurement, Control and Laboratory Use; Part 1: General Requirements Electrical Equipment for Measurement, Control and Laboratory Use; Part 1: General
Product Safety General test methods: Power input*, Permanence of marking*, Acc neasurement*, SELV circuits*, TNV limits* imitation*, Ring signal*, Humidty condition CTD)*, Limited power measurement*, Groun Applied force*, Steel sphere impact*, Mold s Component abornal*, Electric strength*, In Tame*, Needle flame*, Hot flaming oli*, Lo Torque*, Insulation resistance*, Sound level' Pransformer shorts/overloads*, Rain test*, W Functionality*, Protective impedance abnorm supply abnormal*, Cooling abnormal*, Heati Product Safety Standards Specific Product Safety Standards UL 60950 12000 EEC 60950 12003 EEC 60950 12003 ESA 602.22, No. 60950-103	requirements for terminal equipment interface Page 5 of 10 essibility*, Permissibly limits*, Energy hazard , Limited current*, Capacitor Discharge / voltage ing*, Creepage / Clearance / Distance thru Insulation (excluding d Bond/Earthing*, Ground continuity*, Temperature*, Stability*, tress*, Battery reverse current*, Ball pressure*, Lackage current*, pulse*, Overvoltage*, Acoustic sound pressure*, Lackage current*, all*, Capacitor Short circuit abormal*, Output abormal*, Multi- age store abormal*, Interlock abnormal*, Rigidity*, Cleaning* <u>Title</u> Safety of information technology equipment Safety of information technology equipment Safety of information technology equipment, Safety of information technology equipment,	Product Safety Standards. IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-2 2000-5 IEC 60825-1 1997.11 21 CFR 1040.10 IEC 60825-1 1995 (Including AM2 - 1997 & AM 12 - 1997) EN 60335-1 1998 CAN/CSA E335-1 1994 UL 60101-1: 2001 AS/NZS 60950: 2000 EN 60305-1: 2001 AS/NZS 60950: 2000 EN 60950-1: 2001 AS/NZS 60950.1: 2003 UL 61010-1: 2004 UL 60601-1: 2003	Title Classification, requirements and user's guide. Safety of laser products – Part 2: Safety of optical communication systems Safety of laser products – Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements Electrical equipment for laboratory use; part 1: General requirements Safety of orupirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology equipment Information Technology Equipment – Safety – Part1: General requirements Electrical Equipment for Measurement, Control and Laboratory Use; Part 1: General requirements Electrical Equipment for Measurement, Control and Laboratory Use; Part 1: General Requirements Medical Electrical Equipment, Part 1: General Requirements for Safety – Measurement, Control and Laboratory Use; Part 1: General Requirements
Product Safety General test methods: Power input*, Permanence of marking*, Acc measurement*, SELV circuits*, TNV limits* imitation*, Ring signal*, Humidity condition CTI)*, Limited power measurement*, Groun Applied force*, Steel sphere impact*, Mold s Component abnormal*, Electric strength*, In Tame*, Needle flame*, Hot flaming oli*, Lo forque*, Insulation resistance*, Sound level Transformer shorts/overloads*, Rain test*, W Functionality*, Protective impedance abnorm supply abnormal*, Cooling abnormal*, Heati Product Safety Standards UL 60950 2000 EC 609501 12001 UL 609501 2003 ESA 622, 21 No. 60950-103 ESA 622, 22 No. 60950-103 EEC 61010-1 1993	requirements for terminal equipment interface Page 5 of 10 essibility*, Permissibly limits*, Energy hazard , Limited current*, Capacitor Discharge /voltage ing*, Creepage / Clearance / Distance trun Insulation (excluding d Bond/Earthing*, Ground continuity*, Temperature*, Stability*, tress*, Battery reverse current*, Ball pressure*, Lackage current*, publes*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ked rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, - Handle loading*, Lajudi overflow*, Spillage*, Liquid leakage*, all mount*, Laser radiation (excluding x-ray)*, Voltage surge*, all*, Capacitor short circuit abormal*, Output abormal*, Multi- ng device abnormal*, Interlock abnormal*, Rigidity*, Cleaning* <u>Title</u> Safety of information technology equipment Safety of information technology equipment Safety of information technology equipment Safety of information technology equipment Safety of information technology equipment, including Electrical business equipment. Safety requirements for electrical equipment for measurement, control and laboratory use, Part 1: General requirements.	Product Safety Standards IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-2 2000-5 IEC 60825-3 1997-11 21 CFR 1040.10 IEC 60325-1 1995 (Including AM2 - 1997 & AM 12 - 1997) EN 60335-1 1998 CAN/CSA E.335-1 1994 UL 6010A-1: 2002 EN 61010-1: 2001 AS/NZS 60950-2000 EN 60950-1: 2001 AS/NZS 60950.1: 2003 UL 61010-1: 2004	Title Classification, requirements and user's guide. Safety of laser products – Part 2: Safety of optical communication systems Safety of laser products – Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements Electrical equipment for laboratory use; part 1: General requirements Safety of foromation technology equipment for measurement, control, and laboratory use - Part 1: General requirements Safety requirements Safety of foromation technology equipment – Safety – Part1: General requirements Information Technology Equipment – Safety – General requirements Electrical Equipment for Measurement, Control and Laboratory Use; Part 1: General Requirements Electrical Equipment for Measurement, Control and Laboratory Use; Part 1: General Requirements Medical Electrical Equipment - Safety – General Requirements Medical Electrical Equipment for Measurement, Control and Laboratory Use; Part 1: General Requirements
Product Safety General test methods: Power input*, Permanence of marking*, Acc measurement*, SELV circuits*, TAV limits* imitation*, Ring signal*, Humidity condition CTI)*, Limited power measurement*, Groun Applied force*, Steel sphere impact*, Mold s Component abnormal*, Electric strength*, In lame*, Needle flame*, Hot laming oil*, Lo Torque*, Insulation resistance*, Sound level Transformer shorts/overloads*, Rain test*, W "unctionality*, Protective impedance abnorm supply abnormal*, Cooling abnormal*, Heati Product Safety Standards UL 60950 2000 IEC 609501 1990 IEC 609501 2001 UL 60950 2000 IEC 609501 2003 CSA C22.2 No. 60950-103 IEC 61010-1 1993 EN 61010-1 1993 2001	requirements for terminal equipment interface Page 5 of 10 essibility*, Permissibly limits*, Energy hazard , Limited current*, Capacitor Discharge / voltage ing*, Creepage / Clearance / Distance thru Insulation (excluding d Bond/Earthing*, Ground continuity*, Temperature*, Stability*, tress*, Battery reverse current*, Ball pressure*, Lackage current*, pulse*, Overvoltage*, Acoustic sound pressure*, Lackage current*, all*, Capacitor Short circuit abormal*, Output abormal*, Multi- age store abormal*, Interlock abnormal*, Rigidity*, Cleaning* <u>Title</u> Safety of information technology equipment Safety of information technology equipment Safety of information technology equipment, Safety of information technology equipment,	Product Safety Standards IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-2 2000-5 IEC 60825-1 1997 21 CFR 1040.10 IEC 60335-1 1995 (Including AM2 - 1997 & AM 12 - 1997) EN 60335-1 1998 (AN/CSA E335-1 1994 UL 60135-1 1994 UL 61010-1: 2001 AS/NZS 60950: 2000 EN 61010-1: 2001 AS/NZS 60950: 1: 2003 UL 61010 -1: 2004 UL 6001-1: 2003 IEC 60601-1-1: 2000	Title Classification, requirements and user's guide. Safety of laser products - Part 2: Safety of optical communication systems Safety of laser products - Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements Electrical equipment for laboratory use; part 1: General requirements Safety of formation technology equipment for measurement, control, and laboratory use - Part 1: General requirements Safety of formation technology equipment - Safety – Part1: General requirements Information Technology Equipment – Safety – Part1: General requirements Information Technology Equipment – Safety – General requirements Electrical Equipment for Measurement, Control and Laboratory Use; Part 1: General Requirements Medical Electrical Equipment - Part 1: General Requirements Medical Electrical Equipment - Part 1: General Requirements Medical Electrical Equipment - Part 1: General Requirements Requirements For Medical Electrical Standard: Safety Requirements
Product Safety General test methods: "over input", Permanence of marking", Acc neasurement", SELV circuits", TNV limits" imitation", Ring signal", Humidity condition CTD", Limited power measurement", Groun hyplied force", Steel sphere impact", Mold s Component abnormal", Electric strength", In Iname", Needle flame", Hot flaming oil*, Lo forque*, Insulation resistance", Sound level' Promsformer shorts/overloads*, Rain test*, W "auctionality", Protective impedance abnorn upply abnormal*, Cooling abnormal*, Heati Product Safety Standards Specific Product Safety Standards JL 60950 12000 EC 60950 12001 EC 60950-12001 ESA (C22, ZN, 60950-103 ESA (C22, ZN, 60950-103 ESA (C22, N, 60950-103 EC 61010-1 1993 EN 61010-1 1993, 2001 EC 61010-1 2001 Lo 61018-12003	Page 5 of 10 Page 5 Page 5 of 10 Page 5 P	Product Safety Standards. IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-2 2000-5 IEC 60825-1 1997.11 21 CFR 1040.10 IEC 60825-1 1995 (Including AM2 - 1997 & AM 12 - 1997) EN 60335-1 1998 CAN/CSA E335-1 1994 UL 60101-1: 2001 AS/NZS 60950: 2000 EN 60305-1: 2001 AS/NZS 60950: 2000 EN 60305-1: 2003 UL 61010-1: 2004 UL 60061-1: 2003	Title Classification, requirements and user's guide. Safety of laser products – Part 2: Safety of optical communication systems Safety of laser products – Part 4: Laser guards Performance standard for laser products Safety of laser products – Part 4: Laser guards Performance standard for laser products Safety of laser products Safety of laser products Safety requirements Part 1: General requirements Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology Equipment – Safety – Part1: General Requirements Information Technology Equipment – Safety – General requirements Electrical Equipment for Measurement, Control and Laboratory Use; Part 1: General Requirements Medical Electrical Equipment - Part 1: General Requirements For Safety Medical Electrical Equipment - Part 1: General Requirements For Safety Medical Electrical Equipment - Part 1: General Requirements For Safety Medical Electrical Equipment - General Requirements For Safety Requirements For Medical Electrical Systems Medical Electrical Support
Product Safety Beneral test methods: "over input", Permanence of marking*, Acc neasurement*, SELV circuits*, TNV limits* imitation*, Ring signal*, Humidty condition CTU)*, Limited power measurement*, Groun hyplied force*, Steel sphere impact*, Mold s Component abnormal*, Electric strength*, In Iname*, Needle flame*, Hot flaming oil*, Lo forque*, Insulation resistance*, Sound level' fransformer shorts/overloads*, Rain test*, W "auctionality*, Protective impedance abnorn upply abnormat". Cooling abnormal*, Heati Product Safety Standards Ec 60950 12001 EC 60950 12003 ESA 0222, No. 60950-103 ESA 0222, No. 60950-103 ESA 0222, No. 60950-103 EC 61010-1 1993 EN 61010-1 1993, 2001 EC 61010-1 2001 EC 61010-1 2003	Page 5 of 10 Page 5 Page 5 of 10 Page 5	Product Safety Standards IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-2 2000-5 IEC 60825-1 1997 21 CFR 1040.10 IEC 60335-1 1995 (Including AM2 - 1997 & AM 12 - 1997) EN 60335-1 1998 (AN/CSA E335-1 1994 UL 60135-1 1994 UL 61010-1: 2001 AS/NZS 60950: 2000 EN 61010-1: 2001 AS/NZS 60950: 1: 2003 UL 61010 -1: 2004 UL 6001-1: 2003 IEC 60601-1-1: 2000	Title Classification, requirements and user's guide. Safety of laser products – Part 2: Safety of optical communication systems Safety of laser products – Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements Electrical equipment for laboratory use; part 1: General requirements Safety of nourbol, and laboratory use; part 1: General requirements Safety information technology equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology equipment – Safety – General requirements Information Technology Equipment – Safety – General requirements Electrical Equipment for Measurement, Control and Laboratory Use; Part 1: General Requirements Electrical Equipment for Measurement, Control and Laboratory Use; Part 1: General Requirements Medical Electrical Equipment - Part 1: General Requirements for Safety 1: Collateral Requirements For Safety 2: Collateral Standard; Safety Requirements For Safety 2: Collateral Standard; Safety Requirements for Safety 2: Collateral Standard; Safety Requirements for Safety 2: Section 1: Collateral Standard; Safety Requirements for Safety 2: Section 1: Collateral Standard; Safety Requirements for Safety 2: Section 1: Collateral Standard; Safety Requirements for Safety 2: Section 1: Collateral Standard; Safety Requirements for Safety 2: Section 1: Collateral Standard; Safety Requirements for Safety 2: Section 1: Collateral Standard; Safety Requirements for Safety 2: Section 1: Collateral Standard; Safety
Product Safety General test methods: "over input", Permanence of marking*, Acc neasurement*, SELV circuits*, TNV limits* imitation*, Ring signal*, Humidty condition TDy*, Limited power measurement*, Groun Applied force*, Steel sphere impact*, Mold s Component abnormal*, Electric strength*, In Iname*, Needle flame*, Hot flaming oli*, Lo forque*, Insulation resistance*, Sound level' pransformer shorts/overloads*, Rain test*, N "unctionality*, Protective impedance abnorm apply abnormal*, Cooling abnormal*, Heati Product Safety Standards Specific Product Safety Standards Li. 60950 2000 EC 60950 12003 EC 60950 12003 ESA C22.2 No. 60950-103 EC 61010-1 1993 EN 61010-1 1993, 2001 EC 61010-1 2003 EN 61010-1 2003 ZANCESA 1010-1 1999 (Including AM 2)	Page 5 of 10 Page 5 Page 5 of 10 Page 5	Product Safety Standards IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-2 2000-5 IEC 60825-1 1997 21 CFR 1040.10 IEC 60335-1 1995 (Including AM2 - 1997 & AM 12 - 1997) EN 60335-1 1998 (AN/CSA E335-1 1994 UL 60135-1 1994 UL 61010-1: 2001 AS/NZS 60950: 2000 EN 61010-1: 2001 AS/NZS 60950: 1: 2003 UL 61010 -1: 2004 UL 6001-1: 2003 IEC 60601-1-1: 2000	Title Classification, requirements and user's guide. Safety of laser products – Part 2: Safety of optical communication systems Safety of laser products – Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements Electrical equipment for laboratory use; part 1: General requirements Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements Safety requirements Information technology Equipment – Safety – Part1: General requirements Information Technology Equipment – Safety – General requirements Information Technology Equipment – Safety – General requirements Electrical Equipment for Measurement, Control and Laboratory Use; Part 1: General Requirements Medical Electrical Equipment + Tart 1: General Requirements Medical Electrical Equipment + Tart 1: General Requirements for Safety Requirements For Medical Electrical Systems Medical Electrical Equipment + 1: General Requirements For Medical Electrical Safety Requirements For Medical Electrical Systems Medical Electrical Equipment + 1: General Requirements For Medical Electrical Safety Requirements For Medical Electrical Systement + 1: General Requirements For Medical Electrical Safety
Product Safety General test methods: "over input", Permanence of marking*, Acc neasurement*, SELV circuits*, TNV limits* imitation*, Ring signal*, Humidty condition TDy*, Limited power measurement*, Groun Applied force*, Steel sphere impact*, Mold s Component abnormal*, Electric strength*, In Iname*, Needle flame*, Hot flaming oli*, Lo forque*, Insulation resistance*, Sound level' pransformer shorts/overloads*, Rain test*, N "unctionality*, Protective impedance abnorm apply abnormal*, Cooling abnormal*, Heati Product Safety Standards Specific Product Safety Standards Li. 60950 2000 EC 60950 12003 EC 60950 12003 ESA C22.2 No. 60950-103 EC 61010-1 1993 EN 61010-1 1993, 2001 EC 61010-1 2003 EN 61010-1 2003 ZANCESA 1010-1 1999 (Including AM 2)	Page 5 of 10 Page 5 Page 5 of 10 Page 5	Product Safety Standards. IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-2 2000-5 IEC 60825-1 1995 IEC 60825-1 1995 IEC 60825-1 1995 (Including AM2 - 1997 & AM 12 - 1997) EN 60335-1 1998 CAN/CSA E335-1 1994 UL 6010A-1: 2002 EN 61010-1: 2001 AS/NZS 60950-2000 EN 60950-1: 2001 AS/NZS 60950: 1: 2003 UL 60101-1: 2004 UL 60601-1: 2003 IEC 60601-1-1: 2001	Title Classification, requirements and user's guide. Safety of laser products – Part 2: Safety of optical communication systems Safety of laser products – Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements Electrical equipment for laboratory use; part 1: General requirements Safety of household and similar electrical equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology equipment Information Technology Equipment – Safety – General requirements Bafety information technology equipment – Safety – General requirements Electrical Equipment for Measurement, Control and Laboratory Use; Part 1: General Requirements Electrical Equipment for Measurement, Control and Laboratory Use; Part 1: General Requirements for Safety Medical Electrical Equipment - Part 1: General Requirements For Medical Electrical Systems Medical Electrical Equipment - Safety – General Requirements For Medical Electrical Systems Medical Electrical Equipment - Collateral Standard: Safety Requirements For Medical Electrical Systems Medical Safety Requirements For Medical Electrical Systems
Product Safety Beneral test methods: "over input", Permanence of marking*, Acc neasurement*, SELV circuits*, TNV limits* imitation*, Ring signal*, Humidty condition TDy*, Limited power measurement*, Groun Applied force*, Steel sphere impact*, Mold si Component abornal*, Electric strength*, In Iname*, Needle flame*, Hot flaming oil*, Lo Groupe*, Insulation resistance*, Sound level Transformer shorts/overloads*, Rain test*, N "unctionality*, Protective impedance abnorn upply abnormal*, Cooling abnormal*, Heati Product Safety Standards Li Go950 2000 EC 609501 2001 JL 60950-1 2001 JL 60950-1 2001 SAA C22.2 No. 60950-103 EC 61010-1 1993 EN 61010-1 1993 EN 61010-1 1993 EN 61010-1 1993 EN 61010-1 1993 CAN/CSA 1010-1 1999 (Including AM 2) EC 60601-1 1995	Page 5 of 10 Page 5 Page 5 of 10 Page 5 Page	Product Safety Standards. IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-2 2000-5 IEC 60825-1 1995 IEC 60825-1 1995 IEC 60825-1 1995 (Including AM2 - 1997 & AM 12 - 1997) EN 60335-1 1998 CAN/CSA E335-1 1994 UL 6010A-1: 2002 EN 61010-1: 2001 AS/NZS 60950: 2000 EN 6050-1: 2001 AS/NZS 60950: 1: 2003 UL 61010-1: 2004 UL 60601-1: 2003 IEC 60601-1-1: 2001 UL 60065: 2003	Title Classification, requirements and user's guide. Safety of laser products – Part 2: Safety of optical communication systems Safety of laser products – Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements Electrical equipment for laboratory use; part 1: General requirements Safety of household and similar electrical equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology equipment Information Technology Equipment – Safety – General requirements Biformation Technology Equipment – Safety – General requirements Electrical Equipment for Measurement, Control and Laboratory Use; Part 1: General Requirements Electrical Equipment for Measurement, Control and Laboratory Use; Part 1: General Requirements for Safety Medical Electrical Equipment - Part 1: General Requirements for Safety Medical Electrical Equipment - Part 1: General Requirements For Medical Electrical Systems Medical Electrical Equipment - Part 1: General Requirements for Safety – Section 1-1. Collateral Standard: Safety Requirements For Medical Electrical Systems Madio, Video and Similar Electroical Caparatus – Safety Requirements For Medical Electrical Systems Audio, Video and Similar Electroical Caparatus – Safety Requirements For Medical Electrical Systems Audio, Video and Similar Electroical Caparatus – Safety Requirements For Medical Electrical Systems Audio, Video and Similar Elect
Product Safety General test methods: "over input", Permanence of marking*, Acc neasurement*, SELV circuits*, TNV limits* imitation*, Ring signal*, Humildy: condition TI)*, Limited power measurement*, Groun Applied force*, Steel sphere impact*, Mold s Component abnormal*, Electric strength*, In Iame*, Needle Iame*, Hot Haming oil*, Loc Forque*, Insulation resistance*, Sound level Transformer shorts/overloads*, Rain test*, N "unctionality", Protective impedance abnorm upply abnormal*, Cooling abnormal*, Heati <u>Product Safety Standards</u> <u>Specific Product Safety Standards</u> <u>J. 60950</u> 12001 EC 609501 2001 EC 609501 2001 EC 609501 2001 EC 609501 2001 EC 609501 2001 EC 60101 2001 J. 60950 2000 EC 610101 1993 EN 61010-1 1993 EN 61010-1 1993 EN 61010-1 1993 (Doll EC 60601-1 1995 Chocluding AM 2) EC 60601-1 1995 EN 60601-1 1995 (Including AM 2)	Page 5 of 10 Page	Product Safety Standards. IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-2 2000-5 IEC 60825-1 1995 IEC 60825-1 1995 IEC 60825-1 1995 (Including AM2 - 1997 & AM 12 - 1997) EN 60335-1 1998 CAN/CSA E335-1 1994 UL 6010A-1: 2002 EN 61010-1: 2001 AS/NZS 60950-2000 EN 60950-1: 2001 AS/NZS 60950: 1: 2003 UL 60101-1: 2004 UL 60601-1: 2003 IEC 60601-1-1: 2001	Title Classification, requirements and user's guide. Safety of laser products - Part 2: Safety of optical communication systems Safety of laser products - Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements Safety of household and similar electrical appliances Part 1: General requirements Safety of household and similar electrical equipment for measurement, control, and laboratory use; part 1: General requirements Safety information technology equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology equipment - Safety – Part1: General requirements Information Technology Equipment – Safety – General requirements Electrical Equipment for Measurement, Control and Laboratory Use; Part 1: General Requirements Electrical Equipment of Measurement, Control and Laboratory Use; Part 1: General Requirements Medical Electrical Equipment - Part 1: General Requirements for Safety 1: Collateral Standard: Safety Requirements for Safety - Section 1-1. Collateral Standard: Safety Requirements for Safety - Section 2: Collateral Standard: Safety Requirements for Medical Electrical Systems Medical Electrical Equipment - Fart 1: General Requirements for Safety - Section 1-1. Collateral Standard: Safety Requirements for Medical Electrical Systems Medical Electrical Electrical Systems Medical Clectrical Systems
Product Safety General test methods: ower input*, Permanence of marking*, Acc neasurement*, SELV circuits*, TNV limits* imitation*, Ring signal*, Humidity condition TD*, Limited power measurement*, Groun Applied force*, Steel sphere impact*, Mold 3 Component abnormal*, Electric strength*, In Iame*, Needle Iame*, Hot Harning oil*, Loc Forque*, Insulation resistance*, Sound level Fransformer shorts/overloads*, Rain test*, W 'unctionality*, Protective impedance abnorm upply abnormal*, Cooling abnormal*, Heati Product Safety Standards Lie 60950 2000 EC 609501 2001 EC 60950-1 2001 Li 60950 2000 EC 60050-1 2003 ESA (C22.2 No. 60950-00 SSA (C22.2 No. 60950-103 EC 61010-1 1993 EN 61010-1 1993 EN 61010-1 1993 EN 61010-1 1993 EN 61010-1 1995 EN 60601-1 1995 EN 60601-1 1995	Page 5 of 10 Page	Product Safety Standards. IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-2 2000-5 IEC 60825-1 1997-11 21 CFR 1040.10 IEC 60825-1 1995 (Including AM2 - 1997 & AM 12 - 1997) EN 60335-1 1998 CAN/CSA E335-1 1994 UL 60101A-1: 2001 AS/NZS 60950: 2000 EN 60305-1: 2001 AS/NZS 60950: 2000 EN 60051-1: 2001 AS/NZS 60950.1: 2003 UL 60001-1: 2003 IEC 60601-1-1: 2000 EN 60601-1-1: 2001 UL 60005: 2003 CIL 60065: 2003 CSA 60065: 2003	Title Classification, requirements and user's guide. Safety of laser products – Part 2: Safety of optical communication systems Safety of laser products – Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements Electrical equipment for laboratory use; part 1: General requirements Safety of household and similar electrical equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology equipment Information Technology Equipment – Safety – Part1: General requirements Requirements for desaurement, Control and Laboratory Use; Part 1: General requirements Electrical Equipment for Measurement, Control and Laboratory Use; Part 1: General Requirements for Safety Medical Electrical Equipment - Part 1: General Requirements for Safety Medical Electrical Equipment - Part 1: General Requirements for Safety Medical Electrical Equipment - Part 1: General Requirements for Safety Medical Electrical Equipment - Safety Control and Laboratory Becuriation Safety Requirements for Safety - Section 1-1, Collateral Standard: Safety Requirements for Safety - Section 1-1, Collateral Standard: Safety Requirements for Safety - Section 1-1, Collateral Standard: Safety Requirements for Safety - Section 1-1, Collateral Standard: Safety Requirements for Safety - Section 1-1, Collateral Standard: Safety Requarements
Product Safety General test methods: "over input", Permanence of marking*, Acc neasurement*, SELV circuits*, TAV limits* imitation*, Ring signal*, Humidity condition TI)*, Limited power measurement*, Groun Applied force*, Steel sphere impact*, Mold 3 Component abnormal*, Electric strength*, In Iame*, Needle Iame*, Hot Harning oil*, Loc Forque*, Insulation resistance*, Sound level Pransformer shorts/overloads*, Rain test*, W 'uncionality*, Protective impedance abnorm upply abnormal*, Cooling abnormal*, Heati 2roduct Safety Standards J. 60950 2000 EC 60950-1 2001 JL 60950 2000 EC 60050-1 2003 SSA (C22.2 No. 60950-00 SSA (C22.2 No. 60950-103 EC 61010-1 1993 EN 61010-1 1993 EN 61010-1 1993 EN 61010-1 1993 EN 60601-1 1995 EN 60601-1 1995 EN 60601-1 1995	Page 5 of 10 Page	Product Safety Standards. IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-2 2000-5 IEC 60825-1 1995 IEC 60825-1 1995 IEC 60825-1 1995 (Including AM2 - 1997 & AM 12 - 1997) EN 60335-1 1998 CAN/CSA E335-1 1994 UL 6010A-1: 2002 EN 61010-1: 2001 AS/NZS 60950: 2000 EN 6050-1: 2001 AS/NZS 60950: 1: 2003 UL 61010-1: 2004 UL 60601-1: 2003 IEC 60601-1-1: 2001 UL 60065: 2003	Title Classification, requirements and user's guide. Safety of laser products - Part 2: Safety of optical communication systems Safety of laser products - Part 4: Laser guards Performance standard for laser products Safety of houserhold and similar electrical appliances Part 1: General requirements Electrical equipment for laboratory use; part 1: General requirements Safety of household and similar electrical equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology equipment Information Technology Equipment - Safety - Part1: General requirements Information Technology Equipment - Safety - Part1: General requirements Information Technology Equipment - Safety - General requirements Hedical Electrical Equipment, Part 1: General Requirements for Safety 1: Collateral Standard: Safety Requirements for Safety 1: Collateral Requirements For Medical Electrical Equipment - Part 1: General Requirements For Safety 1: Collateral Standard: Safety Requirements For Safety 1: Collateral Standard: Safety Requirements For Medical Electrical Standard: Safety Requirements For Medical Electrical Safe
Product Safety General test methods: Power input*, Permanence of marking*, Acc neasurement*, SELV circuits*, TNV limits* imitation*, Ring signal*, Humidty condition CTD*, Limited power measurement*, Groun Applied force*, Steel sphere impact*, Mold s Component abiormal*, Electric strength*, In Tamse*, Needle flame*, Hot flaming oli*, Lo Torque*, Insulation resistance*, Sound level Transformer shorts/overloads*, Rain test*, W Functionality*, Protective impedance abnorm supply abnormal*, Cooling abnormal*, Heati Product Safety Standards UL 60950 2000 EEC 60950 12003 EEC 60950 12003 EEC 60950 12003 ESA C22.2 No. 60950-00 CSA C22.2 No. 60950-103 EEC 61010-1 1993 EEN 61010-1 1993, 2001 EEC 61010-1 1993 CAN/CSA 1010-1 1999 (Including AM 2) IEC 60601-1 1995 EN 60601-1 1995 EN 60601-1 1997 EEC 60065 1998, 2000	requirements for terminal equipment interface Page 5 of 10 Page 5 of 10 essibility*, Permissibly limits*, Energy hazard , Limited current*, Capacitor Discharge / voltage ing*, Creepage / Clearance / Distance thru Insulation (excluding d Bond/Earthing*, Ground continuity*, Temperature*, Stability*, tress*, Battery reverse current*, Ball pressure*, Leakage current*, phales*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ked rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, - Handle loading*, Liquid Overflow*, Spillage*, Liquid leakage*, 1all mount*, Laser radiation (excluding x-ray)*, Voltage surge*, alt*, Capacitor short circuit abnormal*, Output abnormal*, Multi- ng device abnormal*, Interlock abnormal*, Rigidity*, Cleaning* <u>Title</u> Safety of information technology equipment Safety of information technology equipment, Safety of information technology equipment, Safety of information technology equipment, Safety of information technology equipment, including Electrical business equipment. Safety requirements for electrical equipment for measurement, control and laboratory use, Part 1: General requirements. Safety requirements for electrical equipment for measurement, control and laboratory use, Part 1: General requirements. Electrical equipment for laboratory use Part 1: General requirements. Medical electrical equipment. Medical electrical equipment. Audio, video and similar electronic apparatus – Safety requirements	Product Safety Standards. IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-2 2000-5 IEC 60825-1 1995 IEC 60825-1 1995 IEC 60825-1 1995 IEC 60825-1 1995 (Including AM2 - 1997 & AM 12 - 1997) EN 60335-1 1995 CAN/CSA E335-1 1994 UL 61010-1: 2001 AS/NZS 60950: 2000 EN 60305-1: 2001 AS/NZS 60950: 2000 EN 60950-1: 2001 AS/NZS 60950: 1: 2003 UL 61010 -1: 2004 UL 60601-1: 2003 IEC 60601-1-1: 2001 UL 60065: 2003 CSA 60065: 2003 IEC 60065: 2003 IEC 60065: 2003 IEC 60065: 2003 IEC 60065: 2003	Title Classification, requirements and user's guide. Safety of laser products – Part 2: Safety of optical communication systems Safety of laser products – Part 4: Laser guards Performance standard for laser products Safety of houserhold and similar electricial appliances Part 1: General requirements Electrical equipment for laboratory use; part 1: General requirements Safety of houserhold and similar electricial equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology equipment Information Technology Equipment – Safety – General requirements Radiet requirements for electrical equipment of and Laboratory Use; Part 1: General requirements Information Technology Equipment – Safety – General requirements Requirements for Safety Medical Electrical Equipment of Measurement, Control and Laboratory Use; Part 1: General Requirements for Safety 1: Collateral Standard: Safety Requirements for Safety 1: Collateral Standard: Safety Requirements for Safety 1: Collateral Standard: Safety Requirements for Safety - Section 1-1. Collateral Standard: Safety Requirements for Medical Electrical Systems Audio, Video and Similar Electronic Apparatus – Safety Requirements Medical Subtrict Safety Period Medical Electrical Systems Audio, Video and Similar Electronic Apparatus – Safety Requirements
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Product Safety General test methods: Power input*, Permanence of marking*, Acc neasurement*, SELV circuits*, TNV limits* imitation*, Ring signal*, Humidity condition CTI)*, Limited power measurement*, Groun Applied force*, Steel sphere impact*, Mold 3 Component abnormal*, Electric strength*, In Iame*, Needle flame*, Hot flaming oil*, Lo Groque*, Insulation resistance*, Sound level* Urucinonality*, Protective impedance abnorm supply abnormal*, Cooling abnormal*, Heati Product Safety Standards UL 60950 2000 ECC 60950 12001 UL 60950-1 2001 UL 60950-1 2003 CSA C22.2 No. 60950-00 CSA C22.2 No. 60950-10 Sa C22.2 No. 60950-10 Sa C22.2 No. 60950-10 CAN/CSA 1010-1 1993 EN 61010-1 1993 EN 61010-1 1993 CAN/CSA 1010-1 1995 (Including AM 2) UL 26011-1 1997 IEC 60061-1 1995 (Including AM 2) UL 2601-1 1997 IEC 60065 1998, 2000 ANSI/UL 6500: 1998 CAN/CSA 60065-00 ASN/Z2 No. 1-94 (1-98)	requirements for terminal equipment interface Page 5 of 10 Page 5 Page 5 of 10 Page 5 of 10 Page 5 of 10 Page 5 Page 5 of 10 Page 5 of 10 Page 5 Page 5 of 10 Page 5 of 10 Page 5 Page 5 of 10 Page 5	Product Safety Standards. IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-2 2000-5 IEC 60825-1 1997 21 CFR 1040.10 IEC 60825-1 1995 (Including AM2 - 1997 & AM 12 - 1997) EN 60335-1 1995 (Including AM2 - 1997 & AM 12 - 1997) EN 60335-1 1998 CAN/CSA E335-1 1994 UL 6010A-1: 2002 EN 61010-1: 2001 AS/NZS 60950: 2000 EN 6050-1: 2001 AS/NZS 60950: 12 003 UL 60061-1: 2003 IEC 60601-1-1: 2000 EN 60601-1-1: 2001 UL 60065: 2003 CSA 60065: 2003 IEC 60065: 2001 EN 600065: 2002 EN 60005: 2002 EN 60005: 2002 EN 6024 -1: 1: 1998	Title Classification, requirements and user's guide. Safety of laser products - Part 2: Safety of optical communication systems Safety of laser products - Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements Electrical equipment for laboratory use; part 1: General requirements Safety of household and similar electrical equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology equipment Information Technology Equipment - Safety - Part1: General requirements Information Technology Equipment - Safety - Dart1: General requirements Information Technology Equipment - Safety - General requirements Electrical Equipment for Measurement, Control and Laboratory Use; Part 1: General Requirements Medical Electrical Equipment - Part 1: General Requirements for Safety 1: Collateral Standard: Safety Requirements for Safety - Section 1-1. Collateral Standard: Safety Requirements for Safety - Section 1-1. Collateral Standard: Safety Requirements for Medical Electrical Systems Audio, Video and Similar Electronic Apparatus - Safety Requirements Audio, Video and Similar Electronic Apparatus - Safety Requirements Audio, Video and Similar Electronic Apparatus - Safety Requirements Audio, Video and Similar Electronic Apparatus - Safety Requirements Audio, Video and Similar Electronic Apparatus - Safet
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Environmental Simulation Test Technology	Test Standard	Supporting Standards	Note 1. For standards or methods listed on the scope of accreditation without a revision date, laborat expected to be competent in the use of the current version within one year of the date of publication	
Accessibility*	IEC 60529	IP-0x thru IP-6x	standard test method or upon the date specified by the standard test method originator when the orig	
Acoustic Noise*	GR-63-CORE Sec 4.6			
Airborne Contaminants	GR-63-CORE Sec 4.5	MFG & Hygroscopic Dust	implementation authority. When a superseded standard or method is required for an accredited test,	
Altitude	GR-63-CORE Sec 4.1.3		will include the superseded date/version. For those that support the TCB/CB status of the organization	on acting
Cold Start*	ETS 300 019	IEC 60068-2-1	as a certifier on behalf of the FCC or IC the expectation is currency within 30 days of Federal Regist	ter
Drip	IEC 60529	IP-x1 & IP-x2	publication of changes for FCC and 30 days after IC website update. This note shall not be construe	ed as an
Drops*	ETS 300 019	IEC 60068-2-32	Accreditation Body implication to adopt a more current standard than is required in a regulation or c	
	GR-63-CORE Sec 4.3		the legal requirement) which is adopted by the lab under their responsibility.	ioue (i.e.
Dust	IEC 60529	IP-5x & IP-6x	the regar requirement) which is adopted by the rab under their responsibility.	
Firearms Resistance Testing	GR-487			
Fire Resistance	ANSI.T1.319		* On-site test service is available for this technology, test, or method.	
	GR-63-CORE Sec 4.2	Fire & Needle Flame		
Heat Dissipation*	GR-63-CORE Sec 4.1.4			
Illumination	GR-63-CORE Sec 4.7			
Operational Temperature &				
Humidity (OpTH)*	ETS 300 019	IEC 60068-2-1		
		IEC 60068-2-2		
		IEC 60068-2-14		
		IEC 60068-2-56		
	GR-63-CORE Sec 4.1.2			
Salt Fog & Spray	ASTM B117			
Spatial* Spraying-Splashing	GR-63-CORE Sec 2.0 & 3.0 IEC 60529	IP-x3 & IP-x4		
Storage (Temperature & Humidity)*	ETS 300 019	IP-x3 & IP-x4 IEC 60068-2-1		
Storage (Temperature & Humany)*	E13 300 019	IEC 60068-2-1 IEC 60068-2-2		
		IEC 60068-2-2 IEC 60068-2-14		
		IEC 60068-2-14 IEC 60068-2-30		
		IEC 60068-2-56		
	GR-63-CORE Sec 4.1.1	IEC 00008-2-50		
Vibration	ETS 300 019	IEC 60068-2-6		
Viblation	E15 500 017	IEC 60068-2-27		
		IEC 60068-2-27 IEC 60068-2-29		
		IEC 60068-2-32		
		IEC 60068-2-57		
		IEC 60068-2-64		
		Earthquake, Office &		
	GR-63-CORE Sec 4.4	Transportation		
Water Immersion	IEC 60529	IP-x7 & IP-x8		
Water Jet	IEC 60529	IP-x5 & IP-x6		
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