

Contents

1	Introduction	3
2	Status of Guidelines	3
3	Definitions	3
4	Scope of Guidelines	4
5	Application for Type Approval, Type Acceptance and Modification	4
5	5.5 Application procedure for type approval	4
6	Revocation of approval	8
7	Labelling Requirements	9
8	Failure to comply with Guidelines	9
API	PENDIX 1:	10
API	PENDIX 2:	17
ΔΡΙ	PENDIX 3	35

1 Introduction

The Zambia Information and Communications Technology Authority (Authority) is provided for under section 4 of the Information and Communications Technologies Act No. 15 of 2009 (ICT Act). Section 6 of the ICT Act empowers the Authority to regulate the provision of electronic communications services and products and monitor the performance of the sector, including the levels of investment and the availability, quality, cost and standards of the electronic communications services.

Under section 66 of the ICT Act and Regulation 4 of the ICT (Type Approval) Regulations, Statutory Instrument No. 6 of 2011, a person shall not use, supply, sell, offer for sale, lease or hire any electronic communications equipment or apparatus without approval from the Authority. Further, section 7 of the ICT Act, empowers the Authority to issue guidelines for the better carrying out of its mandate. Pursuant to the mandate referred to above, the Authority issues these Guidelines.

2 Status of Guidelines

These Guidelines shall be read as one with the ICT Act, Statutory Instrument No. 6 of 2011, licence terms and conditions and any other relevant laws.

3 Definitions

In these Guidelines, unless the context otherwise requires-

"Accredited test laboratory" includes a laboratory that is recognised by the Authority in line with International Laboratories Accreditation Cooperation and ISO 17025 standards and published on the Authority website.

"Applicant" means a person who lodges an application for type approval, type acceptance or modification;

"Authority" has the meaning assigned to it under the ICT Act;

"Electronic Communications Apparatus" has the meaning assigned to it under the ICT Act;

"Label" means a mark affixed as evidence of conformance with relevant standards of an electronic communications apparatus intended for use, supply, sell, offer for sale, lease or hire in the Republic.

"Type Approval" means a process by which the Authority verifies whether the electronic communications apparatus conforms to standards applicable in the Republic.

4 Scope of Guidelines

These Guidelines shall apply to any electronic communications apparatus to be used, supplied, sold, offered for sale, leased or hired in the Republic provided the electronic communications apparatus is constructed or adapted for use as part of, or for the purpose of, an electronic communications service.

5 Application for Type Approval, Type Acceptance and Modification

- 5.1 An Applicant who intends use, supply, sell, offer for sale, lease or hire any electronic communications apparatus shall apply to the Authority using any of the following processes, as the case may be:
 - (a) type approval;
 - (b) type acceptance; or
 - (c) modification.
- 5.2 A type approval certificate issued by the Authority, under these Guidelines, shall be specific to a model of the electronic communications apparatus.
- 5.3 A person who intends to use, supply, sell, offer for sale, lease or hire a type approved model of an electronic communications apparatus shall not to be required to apply for the approval of that model.
- 5.4 Type approval and type acceptance certificates issued by the Authority with respect to a model of an electronic communications apparatus shall remain valid unless revoked.

5.5 Application procedure for type approval

- 5.5.1 An Applicant shall follow the type approval process where the model of the electronic communications apparatus -
 - (a) is not approved by the Authority; or
 - (b) does not have a certificate of conformity from a National Regulatory Authority or a Conformity Assessment Body recognised by the Authority

whether or not it contains assembled parts that are type approved.

5.5.2 The following procedure shall be used when applying for type approval:

- (a) The Applicant shall apply for type approval in a manner prescribed in Appendix 1.
- (b) The Applicant shall obtain the prescribed application form at the Authority's registered office or online from the Authority's website (www.zicta.zm).
- (c) The Applicant shall, where an application is lodged physically, submit to the Authority a duly completed application form in triplicate.
- (d) Where the application is made electronically, the form referred to in (c) shall not be submitted in triplicate.
- (e) The Applicant shall ensure that a separate application form is completed for each model of electronic communications apparatus requiring approval.
- (f) Where an Applicant applies for the type approval of two or more models with the same technical characteristics, the applicant shall make one application and furnish the Authority with a declaration of similarity issued by a manufacturer of the electronic communications apparatus requiring approval. For the avoidance of doubt-
 - (i) Only electronic communications apparatus that is technically the same in every aspect including the circuit diagram, behaviour and performance, shall be considered in determining similarity.
 - (ii) Cosmetic differences such as colour, texture, or shape of the electronic communications apparatus shall not be considered in determining similarity.
- (g) an application referred to in (a) shall be accompanied by the following:
 - (i) Duly signed and dated test reports issued by accredited test laboratories, approved by the Authority, demonstrating that the electronic communications apparatus complies with the relevant technical standards prescribed in Appendix 2 and any other applicable standards as amended from time to time;
 - (ii) A declaration of conformity issued by an independent third party;
 - (iii) Technical and operational documents of the electronic communications apparatus including user and installation manuals;

- (iv) Circuit diagram, printed circuit board layout, part list and other relevant design information;
- (v) External and internal photographs of the electronic communications apparatus;
- (vi) Where applicable, sample units of the electronic communications apparatus with the appropriate accessories for testing and verification of declared information; and
- (vii) Any other information that the Authority may deem necessary.
- (h) The samples referred to in (e)(vi) shall remain a property of the Authority, and shall be used as a source of reference in future compliance assessments for the approved electronic communications apparatus.
- (i) The Authority shall, upon receipt of a complete application, issue a quotation of a non-refundable fee payable by the Applicant as prescribed in the second schedule of Statutory Instrument No. 6 of 2011.
- (j) The Authority may undertake the testing of an electronic communications apparatus for type approval purposes.
- (k) Where applicable, the Authority may request an Applicant to subject the electronic communications apparatus for testing by an independent laboratory approved by the Authority at the Applicant's cost.
- (l) The Authority shall, where it is satisfied that the Applicant has met the requirements in accordance with Regulation 7 of Statutory Instrument No. 6 of 2011, issue a type approval certificate bearing a unique number.

5.6 Application procedure for type acceptance

- 5.6.1 An Applicant shall follow the type acceptance process where there is evidence that the electronic communications apparatus is type approved by a National Regulatory Authority or a Conformity Assessment Body that has entered into a mutual recognition agreement with the Authority.
- 5.6.2 The Authority shall from time to time publish, on the Authority website, the approved list of National Regulatory Authorities and Conformity Assessment Bodies.

5.6.3 The following procedure shall be used when applying for type acceptance:

- (a) The Applicant shall apply for type acceptance in a manner prescribed in Appendix 1.
- (b) The Applicant shall obtain the prescribed application form at the Authority's registered office or online from the Authority's website (www.zicta.zm).
- (c) The Applicant shall, where an application is lodged physically, submit to the Authority a duly completed application form in triplicate.
- (d) Where the application is made electronically, the form referred to in (c) shall not be submitted in triplicate.
- (e) The Applicant shall ensure that a separate application form is completed for each model of electronic communications apparatus requiring approval.
- (f) An application referred to in (a) shall be accompanied by the following:
 - (i) A duly signed Certificate of conformance issued by a National Regulatory Authority or a Conformity Assessment Body that has entered into a mutual recognition agreement with the Authority;
 - (ii) Full name and mailing address of the manufacturer of the electronic communications apparatus and that of the Applicant;
 - (iii) Copy of installation and operating instructions to be furnished to the user;
 - (iv) Technical and operational documents of the electronic communications apparatus including user and installation manuals; and
 - (v) Any other information that the Authority may deemed necessary.
- (g) The Authority shall, upon receipt of a complete application, issue a quotation of a non-refundable fee payable by the Applicant as prescribed in the second schedule of Statutory Instrument No. 6 of 2011.
- (h) The Authority shall, where it is satisfied that the Applicant has met the requirements in accordance with Regulation 6 of Statutory Instrument No. 6 of 2011, issue a type approval certificate bearing a unique number

5.7 Application for modification procedure

- (a) An Applicant shall apply for modification in a manner prescribed in clause 5.5 where the electronic communications apparatus is type approved or type accepted but has undergone modification that changes its technical characteristics.
- (b) An Applicant may apply for modification where the electronic communications apparatus is renamed or rebranded.
- (c) A holder of a type approval certificate that has undergone name change shall notify the Authority within 14 days of the name change.

6 Revocation of approval

- 6.1 An approval issued by the Authority under these Guidelines may be revoked if-
 - (a) Obtained by fraud or submission of false information or statements relating to the model of the electronic communications apparatus;
 - (b) The model of the electronic communications apparatus deviates from and fails to comply with relevant standards issued by the Authority;
 - (c) The Authority becomes aware of any circumstance or fact which would have required or permitted the Authority to refuse to grant the approval;
 - (d) There is a change in the applicable standards; or
 - (e) The revocation is in the public interest.
- 6.2 The Authority shall before revoking an approval, give written notice to the holder of a type approval certificate of its intention to revoke the approval and shall-
 - (a) give reasons for the intended revocation; and
 - (b) require the holder to show cause within a period of 7 days why the approval should not be revoked.

6.3 The Authority may recall from the market the model of the electronic communications apparatus whose approval has been revoked.

7 Labelling Requirements

- 7.1. Unless otherwise determined by the Authority, a manufacturer, distributor, importer or supplier shall ensure that type approved electronic communications apparatus is affixed with a legible label-
 - (a) Approved by the Authority as shown in Appendix 3;
 - (b) Issued by a National Regulatory Authority or a Conformity Assessment Body where the electronic communications apparatus is approved using the type acceptance process.
- 7.2. A manufacturer, distributor, importer or supplier shall ensure that the label referred to in 7.1 is visible and legible at all times.
- 7.3. A label shall be affixed on the electronic communications apparatus, the packaging and included in the user manual.
- 7.4. Where affixing a label as prescribed in 7.3 is not feasible, an alternative method of displaying the label approved by the Authority in writing may be used.
- 7.5. A manufacturer, distributor, importer or supplier shall ensure that a label is affixed on an electronic communications apparatus before it is imported, supplied, sold, offered for sale or leased.

8 Failure to comply with Guidelines

A person who fails to comply with these Guidelines commits an offence under section 79(1) of the ICT Act.

9 Exemption

- 9.1. An individual shall be exempt from the requirement for type approval if the electronic communications apparatus is acquired for an individual's personal use.
- 9.2. The Authority shall from time to time determine and publish on its website a list of exempt electronic communications apparatus.

10 Prohibited

The Authority shall from time to time determine and publish on its website a list of electronic communications apparatus prohibited for use in the Republic.

11 Repeal

The Type Approval Guidelines, 2015 are hereby repealed.

APPENDIX 1:

FORM 1 -

Application for Type Approval, Type Acceptance and Modification

APPENDIX 1

(Regulations 6)

Form 1 (Regulation 6) (To be completed in triplicate)



ZAMBIA INFORMATION AND COMMUNICATIONS TECHNOLOGY AUTHORITY

The Information and Communication Technologies Act, 2009 (Act No. 15 of 2009)

The Information and Communication Technologies (Type Approval) Regulations, 2011

	APPLI	CATIC	N FOR TYPE APPROVA	L,	TYPE ACCEPTANCE AND MODIFICATION		
Annl	ication Type	T	o Approval		1		
Аррі	ication Type	ı yı	e Approval [J		
		Тур	e Acceptance [1	()
		Мос	lification []		
A. Al	PPLICANT'S DETAILS	Info	rmation Provided			Check L	ist (√)
1	Type of Applicant (Tick Appropriate)	[]Local Manufacturer	-		()
		[]International Manuf	fact	turer		
		[]Commercial User				
		[]Licenced Operator		Licence Number:		
		[]Authorised Dealer		Registration Number:		
		[]Private user				
		[]Other		Specify:		

2	Company Name			
3	Contact Person		()
4	Physical Address		()
5	Postal Address		()
6	Phone	Fixed: Mobile: Fax:	()
7	Email:		()
8	Manufacturer Name and Address		()
9	Required Documentation for Type Approval	 Technical and operational documents of the electronic communications apparatus including user and installation manuals; A declaration of conformity issued by the manufacturer; Circuit diagram, printed circuit board layout, part list and other relevant design information; and External and internal photographs of the electronic communications apparatus; 	()
			()
			()
10	Required Documentation for Type Acceptance	 A duly signed Certificate of conformance issued by a National Regulatory Authority or a Conformity Assessment Body that has entered into a mutual recognition agreement with the Authority; and Technical and operational documents of the electronic communications apparatus including user and installation manuals; 	()
			()

	CHNICAL DETAILS OF EQUIPMENT	Information P	rovided				
11	Equipment Category (Tick	[]	[]	[]	[]	[]	
	Appropriate)	GSM	DECT	UMTS/3G/4 G	TETRA	Amateur Radio	
		[]	[]	[]	[]	[]	
		Private Mobile Radio	Radar	Maritime Radio	Radar	RLAN	
		[]	[]	[]	[]	[]	
		Wimax	FWA	Microwave	Sound Broadcasting	TV Broadcasting	
		[]	[]	[]	[]	[]	
		WiFi	Bluetoot h	RFID	Amarteur Satelite Radio	Radio Navigation	
		[]	[]	[]	[]	[]	
		Satelite TV	VSAT	Analog PSTN	xDSL	Voice Equipment	
		[]	[]	[]			
		Leased Line Equipment	Switched Data	Other (Specify)			
12	Intended Use	Private:	[]	Commerc	ial: []		
		Retail:	[]	Other:			
		(specify)					
13	Equipment Details	Brand Name:					
		Type Name:					
		Model Number	:				

		Country of Origin:		
		Frequency Range (MHz):	Bandwidth:	
		Transmission Capacity:	No. of Channels:	
		Output Power (mW):	Channel Spacing:	
		Frequency Stability:		
		Modulation Type(e.g. AM, FM, OF	DM etc):	
		ITU Emission Designator:		
14	Antenna Details	Type: [] Integral	[] External	
14	Antenna Detaits	Type. [] integrat	[] Externat	
		Gain:		
		Power Source: [] Power Source	urce [] Connectors	
		[] Software	Others (Specify):	
15	Equipment License	[] Required [] Not Required	
16	Standards Compliance	EMC	Test Report No.	
	·		·	()
		Radio	Test Report No.	
		Health and Safety	Test Report No.	

		Technology Specific	Test Report No.		
17	Serial Number of				
	Sample Equipment				
	Submitted for tests			()

DECLARATION

I/we declare that all the particulars and information provided in this application are complete, correct and true and I/we agree that in the event that any of the said particulars and information provided is found to be untrue or fraudulent, the assignment/reservation will be revoked.

I/we agree that in the event that of the revocation of the assignment/reservation, any fees paid to the Authority in respect of the same shall be forfeited. I/we declare that in the event that the nature of my/our business changes, or I/we no longer carry out operations in terms of the assignment/reservation, I/we will notify the Authority in which case my/our assignment/reservation may be revoked or revised.

Declared at __ this day of 20 by the following persons who are duly authorised to sign for and on behalf of the applicant under the authority of the Power of Attorney or Board Resolution which are hereby attached.

the Power of Attorney or Board Resolution wh	nich are hereby attached.
Applicant's Name	Date
Applicant's Signature	
FOR OFFICIAL USE ONLY	
Received by:	Receipt No.:
Date Received:	
Amount Received:	
Serial No. of Applicant:	STAMP

APPENDIX 2:

Type Approval Standards

Public Mobile

Service defined	Frequency Band	Applicable Sub-section of Framework		Refe	erence standards for conformity		
GSM	880 - 915 MHz	GSM Base Station and Ancillary	1.1	ZS	EN 301 489-8		
	925 - 960 MHz	equipment		E	EN 301 502		
DCS	1705 - 1785 MHz	GSM Handsets, terminals &	1.2	N	EN 301 489-7		
	1805 - 1880MHz	ancillary equipment			EN 301 511		
		DECT cordless telecoms		3	EN 301 489-6		
DECT	1880 - 1900 MHz	equipment	1.3	0	EN 301 406		
				1		EN 301 908-2	
		UMTS handsets and related	1.4			EN 301 908-6	
	1900 - 1920 MHz	equipment		4		EN 301 489-24	
IMT	1920 - 1980 MHz			8	EN 301 908-1	EN 301 908-3	
	2110 - 2170 MHz	UMTS base stations	1.5	9		EN 301 908-7	
				1		EN 301 908-11	
						EN 301 489-23	

Private Mobile

Frequency Band	Applicable Sub-section of Framework	Reference s	standards for conformity		
380 - 399.9 MHz				EN 301 489-18	
410 - 430 MHz	TETRA radio equipment	2.1		EN 303 035-1	
				EN 303 035-2	
3.5 - 3.8 MHz					
7.0 -7.2 MHz					
			_	ZS EN 301 489-15	5
14 - 14.35 MHz	Amateur radio and ancillary	2.2	Z		
21 - 21.45 MHz	equipment		S	EN 301 783-2	
24.89 - 24.99 MHz					
144 - 146 MHz			E		_
			N		EN 300 135
26.965- 27.405 MHz	Citizen band radio and ancillary	2.3		EN 301 489-13	EN 300 135-1
	equipment		3		EN 300 135-2
			0		EN 300 489-5
	Analogue and digital PMR		1		EN 300 793
	equipment	2.4		EN 300 296-2	EN 300 471-2
430- 470 MHz			4	EN 301 166-2	EN 300 086-2
			8		EN 300 113-2
	Short range PMR and ancillary		9		
	equipment	2.5	1		EN 300 390-2
				EN 300 698	
156.025 - 174 MHz	Maritime Radio	2.6		EN 301 025	
				EN 301 178	
1.260 - 1.350 GHz					
2.700 - 3.300 GHz	Radar for radio-navigation	2.7		ТВС	
9.3 - 9.5 GHz				EN 302 248	
76 - 77.5 GHz				EN 302 194	

Fixed Wireless

Service	Frequency Band	Applicable Sub-section of Framework		Reference standards for conformity		
RLAN		5 GHz high performance RLAN				
Wi-Fi	5.725 - 5.85 GHz	and ancillary equipment	3.1	Z	ZS EN 301 489-	
WLAN				S	17	
	2.495 - 2.690				EN 301 893	
WiMax	GHz 3.40 - 3.60 GHz	WiMax equipment	3.2	E N		EN 301 753
FWA	10.60 - 10.68 GHz			-		EN 301 753
WLL (phased	1.429 - 1.452 GHz	Fixed Wireless Access and	3.3	3		EN 302 326-2
out) BWA	2.3 - 2.4 GHz 4.8 - 5.0 GHz	ancillary equipment		0		EN 302 326-3
	10.7 - 11.7 GHz 12.75 - 13.25				EN 301 489-4	
	GHz 14.40 - 15.35			4	EN 302 217-2-2	
	GHz			8	EN 302 217-3	
Digital	17.70 - 19.70 GHz 21.20 - 23.60	Point-to-point radio fixed link	3.4	9		EN 302 217- 4-2
Microwave	GHz 27.50 - 29.50	equipment and antenna		1		
Radio	GHz 31.80 - 33.40 GHz					
	37.0 - 39.5 GHz					

Short Range Devices

Typical Application Type	Authorised Frequency Bands /Frequencies (channel spacing)	Applicable sub- section of Framework		Referen conform	ce standards for nity	Maximum Field Strength /RF Output power
100.4	6765 11	N		7.0	FCC D 1.45	42 dBuA/m at
ISM	6765 kHz - 6795 kHz	Non-specific short	4.1	ZS	FCC Part 15	10m
	13.553 MHz - 13.567 MHz	range devices		E	ZS EN 300 220	e.r.p. 10 mW
	26.957 MHz - 27.405 MHz			N	ZS EN 300 330	
	40.66 MHz - 40.7 MHz					
	868 MHz - 868.6 MHz	Non-specific short	4.1	3	ZS EN 300 220	e.r.p. 25 mW
	868.7 MHz - 869.2 MHz	range devices		0		e.r.p. 100 mW
	869.4 MHz - 869.65 MHz			1		e.r.p. 25 mW
	869.7 MHz - 870 MHz					e.r.p. 25 mW
ISM, WLAN,	2400 MHz - 2483.5 MHz	Non-specific short	4.1	4	ZS EN 300 440	e.i.r.p. 10 mW indoor only
Bluetooth		range devices		8		
ISM	61 GHz - 61.5 GHz	Non-specific short	4.1	9	ZS EN 300 440	e.i.r.p. 100 mW
	122 GHz - 123 GHz	range devices		1	FCC Part 15	
	244 GHz- 246 GHz					

Short Range Devices

Typical	Authorised Frequency	Applicable sub-		Referenc	e	Maximum Field
Application	Bands /Frequencies	section of		standard	s for	Strength /RF
Туре	(channel spacing)	Framework		conformi	ty	Output power
Active	401 MHz - 406 MHz	Wireless	4.7		EN 301 839	e.r.p 25 uW
Medical		applications			EN 302 537	
implant,	9 kHz -315 kHz	in			EN 302 195	30 dBuA/m at 10 m
hearing aids,	30 MHz - 37.5 MHz	healthcare &			EN 302 510	e.r.p 1 mW
etc.	169.4 MHz - 174 MHz	listening			ZS EN 300 422	e.r.p 10 mW
		devices		Z		
	43 MHz, 46 MHz,					
Cordless	47MHz, 49 MHz	Wireless	4.8	S	EN 301 357	e.r.p. 10 mW
loudspeakers,	900 MHz	audio		_		
headphones,	1795 MHz - 1800 MHz	applications		E		e.i.r.p. 20 mW
etc.	87.5 MHz - 108 MHz			N		e.r.p 5 mW
Vehicle	133 kHz	Vehicle-	4.9		ZS EN 300 220	60 dBuA/m at 10 m 70 dBuA/m at 10 m,
immobilizer,	134 kHz	fitted radio		3	п	e.r.p.
antitheft		products		0		10 mW (10 dBm)
	433.72 MHz - 434.12					75.6 dBuA/m at 3m,
system,	MHz			1	"	e.r.p.
navigation						0.1 mW
device, etc.	133 kHz			4	"	95 dBuA/m at 3 m
				8		
	433 MHz			9	"	e.r.p 1 mW
	458.95 MHz			1	11	70 dBuA/m at 10 m, e.r.p.
	430.33 141112			_		10 mW (10 dBm)
	2450.00 MHz				ZS EN 300 328	e.i.r.p 1 mW
	24.15 GHz				ZS EN 300 440	e.i.r.p 10 mW
	2 1123 3112				25 211 500 110	10 W to 15 W Peak
	76 GHz - 77 GHz				EN 301 091	e.i.r.p
						316.22 W Peak
	1575.42 MHz					e.i.r.p
	13.553 MHz - 13.576					
	MHz				EN 302 291	60 dBuA/m at 10 m
					ZS EN 300 330	

Short Range Devices

Typical Application Type	Authorised Frequency Bands /Frequencies (channel spacing)	Applicable sub- section of Framework		stan	erence adards for formity	Maximum Field Strength / RF Output power
SRD radar	10.5 GHz - 10.6 GHz	Radio	4.2		ZS EN 300 440	e.i.r.p 500 mW
systems	24.05 GHz - 24.25 GHz	determination			EN 302 288	e.i.r.p 100 mW
	57 GHz - 64 GHz	application			EN 302 372	e.i.r.p -41.3 dBm /MHz
	75 GHz - 85 GHz					
Vehicle	5795 MHz - 5805 MHz	Road	4.3	Z	EN 300 674	e.i.r.p 2 W
telematics	76 GHz- 77 GHz	transport and		S	EN 200 674	55 dBm peak e.i.r.p -50
		traffic			EN 301 091	dBm Average power-
		telematics		E		23.5 dBm
Car	9 kHz - 148.5 kHz	Inductive	4.4	N	EN 302 291	72 dBuA/m at 10 m
immobilisers, alarm	3155 kHz- 400 kHz	applications			ZS EN 300 330	13.5 dBuA/m at 10 m
systems,	6765 kHz - 6795 kHz			3		42 dBuA/m at 10 m
data transfer	7400 kHz - 8800 kHz			0		9 dBuA/m at 10 m
to handheld	13.553 MHz - 13.567 MHz			1		60 dBuA/m at 10 m
devices, etc.	26.957 MHz - 27.283 MHz					42 dBuA/m at 10 m, e.r.p
				4		10 mW
	430 MHz - 435 MHz			8	FCC Part 15	e.r.p 10 mW
	830 MHz - 850 MHz			9	ZS EN 300 220	e.r.p 10 mW
Purpose of	26 MHz, 27 MHz, 76 MHz	Model control	4.5	1	ZS EN 300 220	e.r.p 100 mW
controlling	34.995 MHz, 35.225 MHz					
movement of						
a model						Only for flying models
Article	13.553 MHz - 13.567 MHz	Radio	4.6		EN 302 291	60 dBuA/m at 10 m
identification, asset	2446 MHz- 2454 MHz	Frequency			ZS EN 300 440	e.i.r.p 500 mW
tracking,		identification				
alarms, etc.		applications				

Satellite

Service defined	Frequency Band	Applicable Sub-section of Framework		Reference standards for conformity		
Amateur Satellite Radio	7.0 - 7.1 MHz 14.0 - 14.25 MHz 21.0 - 21.45 MHz 24.89 - 24.99 MHz 144 - 146 MHz 24.0 - 24.05 GHz 47.0 - 47.2 GHz	MSS equipment operating below 1 GHz	5.1	Z S E N	EN 301 489-20	EN 301 721
Radar & Navigation Systems and Active Sensors (GPS) S-DAB	1215 - 1260 MHz 1479.5 -1492 MHz	MSS equipment operating between 1-3 GHz	5.2	3 0 1 4 8	211 302 403 20	EN 301 425 EN 301 441 EN 301 442 EN 301 444 EN 301 681
Satellite TV Other VSAT	3.625 - 4.2 GHz 5.85 - 6.45 GHz 10.7 - 12.75 GHz 13.75 - 14.5 GHz 14 - 14.5 GHz 19.7- 20.2 GHz 21.4 - 22 GHz	VSAT and ancillary equipment	5.3	9	EN 301 489-12	EN 301 428 EN 301 443 EN 301 360 EN 301 459

Broadcasting

Service defined	Frequency Band	Applicable Sub-section of Framework		Refe	rence standards for conformity
FM Radio T-DAB	87.5 - 108 MHz 1452 - 1479.5 MHz	Sound broadcasting equipment	6.1	ZS E N 3	EN 301 489-11 EN 302 018-2
TV Broadcast	47 -68 MHz 174 - 230 MHz 470 - 790 MHz	Vision broadcasting equipment	6.2	1 4 8 9 1	EN 301 489-7 EN 301 489-14 EN 302 297

Broadcasting

Type of TTE	Subtype	Appplicable
		Standard
Decoder	Terrestrial	ZS 817: 2014
TV	iDTV	ZS 824: 2015

Telecommunications Terminal Equipment (TTE) - PSTN

Type of TTE	Subtype	Applicable	Description
Type of the	Subtype	Standard	Description
	General	Standard	
Analog PSTN TTE: *Single Line equipment directly connecting to analog PSTN *Single Line telephony *Fax Machines *Analogue Modems *Answering machines *Adjuncts and telephones offering analogue CLI *Subscriber Meter *PSTN Connected Security Alarms	(applicable to all)	ZS ETSI TBR 021	* Terminal Equipment (TE); Attachment requirements for pan-European approval for connection to the analogue Public Switched Telephone Networks (PSTNs) of TE (excluding supporting the voice telephony service) in which network addressing, if provided, is by means of Dual Tone Multi-Frequency (DTMF) signalling
	Pulse or Loop Disconnect dialling	ZS ETSI ES 201 187	* 2-wire analogue voice band interfaces; Loop Disconnect (LD) dialling specific requirements
	Analogue telephones and other equipment whichoff analogue handset telephony such as modems or fax machines CallerLine Identification (CLI)	ZS ETSI TBR 038 ZS ETSI ES 201 235-3	* Public Switched Telephone Network (PSTN); Attachment requirements for a terminal equipment incorporating an analogue handset function capable of "supporting the justified case service when connected to the analogue interface of the PSTN * Access and terminals (AT) specification of Dual- Tone Multi Frequency (DTMF) Transmitters and receivers; Part 3 Receivers
	Fixed Line Short Message Service (SMS)	ZS ETSI ES 201 912	* Access and Terminals (AT); Short Message Service (SMS) for PSTN/ ISDN; Short Message Communication between a fixed network Short Message Terminal Equipment and a Short Message Service Centre
		ETSI TS 103 912	* Access and Terminals (AT); Short Message Service (SMS) for PSTN/ ISDN; Short Message Communication between a fixed network Short Message Terminal Equipment and a Short Message Service Center (Corrections to ES 201 912 V1.1.1)
		ZS ETSI EN 300 659-2 ETSI ES 200 778-2	* Access and Terminals (AT); Analogue access to the Public Switched Telephone Network (PSTN); Subscriber line protocol over the local loop for display (and related) services; Part2: Off-hook data transmission * Access and Terminals (AT); Analogue access to

the Public Switched Telephone Network (PSTN);
Protocol over the local loop for display and
related services; Terminal equipment requirements

TTE - xDSL

Type of TTE	Subtype	Applicable	Description
		Standard	
xDSL Modem	HDSL	ZS ETSI ETR 152	* Transmission and Multiplexing (TM); High bit- rate Digital Subscriber Line (HDSL) transmission system on metallic local lines; HDSL core specification and applications for 2 048 kbit/s based access digital Sections
		ZS ETSI TS 101 135	* Transmission and Multiplexing (TM); High bit- rate Digital Subscriber Line (HDSL) transmission system on metallic local lines; HDSL core specification and applications for combined ISDN-BA and 2 048 kbit/s Transmission
	SHDSL	ZS ITU G992.1	* Single-Pair High-Speed Digital Subscriber Line (SHDSL) subscriber transceivers
	SDSL	ZS ETSI TS 101 524-1	* Transmission and Multiplexing Access transmission system on metallic access cables. Symmetrical single pair high bit rate Digital Subscriber Line (SDSL)
	ADSL	ETSI ES 202 913	* Access and Terminals (AT); POTS requirements applicable to ADSL modems when connected to an analogue presented PSTN line
		ETSI TS 101 952-1-1	* Access network xDSL transmission filters. Part 1: ADSL splitters for European deploymen; Subpart 1: Specification of the low pass part of ADSL/POTS Splitters
		ETSI TS 101 952-1-2	* Access network xDSL transmission filters. Part 1: ADSL splitters for European deploymen; Subpart 2: Specification of the high pass part of ADSL/POTS Splitters

TTE - Other

Type of TTE	Subtype	Applicable	Description
		Standard	
Voice Equipment	Payphone	ZS ETSI1-ETS 300 400	* Integrated Services Digital Network (ISDN); Telephony terminal Payphones
	PBX and Key Systems	ZS ETSI ES 201 168	* Speech Processing, Transmission and Quality Aspects (STQ); Transmission characteristics of digital Private Branch exchanges (PBXs) for interconnection to private networks, to the
			public switched network or to IP gateways
	Voice over IP terminals	ZS ITU-T Rec. G.711	* The Vo/IP terminal equipment shall have an audio codec capable of encoding and decoding speech according to ITU-T Rec. G.711 and capable of transmitting and receiving A-law and u-law. It may support other codecs (ITU-T Rec.
			G.726 ADPCM, G.728 LD-CELP, G.729 CS-ACELP G.729a CS-ACELP, G.723.1 MPMLQ G.723 ACELP). * The Vo/IP terminal equipment shall support Dynamic Host Configuration Protocol (DHCP) and Real-Time Protocol (RTP).
		ZS ITU-T Rec. H.323	* If the video codec is provided, it shall comply
			with requirements given in ITU-T Rec. H.323.
		IETF MEGACOIP Phone Media Gateway standard	* If the Vo/IP terminal equipment is an MEGACO/H248 based terminal it shall also support IETF MEGACOIP Phone Media Gateway standard
		IETF Session Initiation Protocol (RFC3261, RFC3262, RFC3263, RFC3264 AND RFC3265)	* If Vo/IP Terminal Equipment uses SIP
		IETF RFC1933	* For Vo/IP Terminal Equipment with IPv6 support the equipment shall implement the mechanisms specified in RFC1933 (Transition Mechanisms for IPv6 Hosts and Routers) in order to maintain compatibility with IPv4.
		ETSI ES 201 168	* Speech Processing, Transmission and Quality Aspects (STQ); Transmission characteristics of digital Private Branch exchanges (PBXs) for interconnection to private networks, to the

TTE – Other

Type of TTE	Subtype	Applicable	Description
		Standard	
Leased Lines	TTE offering direct connection to SDH	ZS ETSI ETS 300 232/AI	* Transmission and Multiplexing (TM); Optical
	relay		interfaces for equipments and systems relating
	services		to the Synchronous Digital Hierarchy (SDH)
		ZS ETSI ETS 300 300	* Broadband Integrated Services Digital Network
			(BISDN); Synchronous Digital Hierarchy (SDH)
			based user network access; Physical layer User
			Network Interfaces (UNI) for 155 520 kbit/s
			and 622 080 kbit/s Asynchronous Transfer
			Mode (ATM) B-ISDN applications ITU-R:
		ZS ETSI ETS 300 814	* Digital Video Broadcasting (DVB); DVB
			interfaces to Synchronous Digital Hierarchy
			(SDH) networks
	Switching equipments	ETSI ES 203 021-1	* Access and Terminals (AT); Harmonized basic
	offering		attachment requirements for Terminals for
	direct connection to 2		connection to analogue interfaces of the
	and 4 wire analogue		Telephone Networks; Update of the technical
	Leased Line services		contents fo TBR 2.1, EN 301 437, TBR 015
			TBR 017; Part 1: General aspects
		ETSI ES 203 021-2	* Access and Terminals (AT); Harmonized basic
			attachment requirements for Terminals for
			connection to analogue interfaces of the
			Telephone Networks; Update of the technical
			contents fo TBR 2.1, EN 301 437, TBR 015
			TBR 017; Part 2: Basic transmission and Protection
	Digital Leased Line - Co-	ZS ITU-T Rec. G.703	* General aspects of digital transmission systems
	directional G703	23 110-1 Nec. 0.703	terminal equipments Physical /Electrical
	an ectional 6765		characteristics of Hierarchical Digital Interfaces
	Digital Leased Line -	ZS ITU-T Rec. H.244	* Synchronized aggregation of multiple 64 or 56
	N x 64kbps	25 11 0-1 Nec. 11.244	kbit/s channels
	ιν ν οπισμό	ZS ITU-T Rec. H.323	* Packet-based multimedia communications
		23 110-1 Nec. 11.323	
		ZS ETSI TBR 014	* Business Telecommunications (BTC); 64 kbit/s
		23 E131 1 DK U14	digital unrestricted leased line with octet
			integrity (D64U); Attachment requirements for
		70 FT01 TDD 04 4 / 4 4	terminal equipment interface
	1	ZS ETSI TBR 014/A1	* Business Telecommunications (BTC); 64 kbit/s

		digital unrestricted leased line with octet integrity (D64U); Attachment requirements for terminal equipment interface
	ZS ETSI EN 300 290	* Access and Terminals (AT); 64 kbit/s digital unrestricted leased line with octed integrity
		(D64U); Terminal equipment Interface

TTE- Other

Type of TTE	Subtype	Applicable	Description
		Standard	
Digital Leased Lines	Digital Leased Line - E1 2.048Mbps	ZS ETSI TBR12	* Business Telecommunications (BTC); 2.048 kbit/s digital unstructured leased lines (D2048U); Attachment requirements for terminal equipment interface
		ETSI TBR012/AI	* Business Telecommunications (BTC); Open Network Provision (ONP) technical requirements; 2.048 kbit/s digital unstructured leased line (D2048U); Attachment requirements or terminal equipment interface
		ZS ETSI TBR13	* Business Telecommunications (BTC); 2.048 kbit/s digital unstructured leased lines (D2048S); Attachment requirements or terminal equipment interface
		ZS ETSI EN 300 248	* Access and Terminal (AT); 2 048 kbit/s digital unstructured leased line (D2048U); Terminal equipment interface
		ZS ETSI EN 300 420	* Title: Access and Terminals (AT); 2 048 kbit/s digital unstructured leased lines (D2048S); terminal equipment interface
	Digital Leased Line - E3 45Mbps	ZS ETSI EN 300 689	* Access and Terminal (AT); 34 Mbit/s digital leased line (D34U and D34S) Terminal equipment interface
		ETSI TBR24	* Business Telecommunications (BTC); 34 Mbit/s digital unstructured and structured leased lines (D34Uand D34S); Attachment requirements for terminal equipment interface
	Digital Leased Line - 140Mbps	ZS ETSI TBR 025	* Business Telecommunications (BTC); 140 Mbit/s digital unstructured and structured leased lines (D140U and D140S); Attachment requirements for terminal equipment interface
		ZS ETSI EN 300 690	* Access and Terminals (AT); 140 Mbit/s digital leased lines (D140U and D140S); Attachment * (D140U and D140S); Terminal equipment

interface

TTE – Switched Data

Type of TTE	Subtype	Applicable	Description
		Standard	
Switched data services	Basic Rate ISDN	ZS ETSI TBR 003	* Integrated Services Digital Network (ISDN); Attachment requirements for terminal equipment to connection to an ISDN using ISDN basic access
		ZS ETSI TBR 008	* Integrated Services Digital Network (ISDN); Telephony 3.1 kHz teleservices; Attachment requirements for handset terminals
		ZS ITU-T Recommendation G.961	* Digital transmission system on metallic local lines for ISDN basic rate access
		ZS ETSI ETR 080	* Transmission and Multiplexing (TM); Integrated Services Digital Network (ISDN) basic rate access; Digital transmission system on metallic local lines
Prim	Primary Rate ISDN	ZS ETSI TBR 004/AI	* Integrated Services Digital Network (ISDN); Attachment requirements for terminal equipment to connection to an ISDN using ISDN primary rate access
		ZS ETSI TBR 008	* Integrated Services Digital Network (ISDN); Telephony 3.1 kHz teleservices; Attachment requirements for handset terminals systems
	X25	ZS ETSI TBR 2	* Attachment requirements for Data Terminal Equipment (DTE) to connect to Packet Switched Public Data Networks (PSPDNs) fpr CCITT Recommendation X.25 interfaces at data signalling rates up to 1920 kbit/s utilizing interfaces derived from CCITT Recommendations X.21 and X.21bis
		ZS ITU-T Recommendation X.25	* Interface between Data Terminal Equipment (DTE) and Data Circuit-terminating Equipment (DCE) for Terminals operating in the Packet Mode and connected to Public Data Networks by Dedicated Circuit

TTE – Switched Data

Type of TTE	Subtype	Applicable	Description
		Standard	
Switched data			
services	X21	ZS ETSI TBR 2	* Attachment requirements for Data Terminal Equipment (DTE) to connect to Packet Switched Public Data Networks (PSPDNs) for CCITT Recommendation X.25 interfaces at data signalling rates up to 1920 kbit/s utilizing interfaces derived from CCITT
			Recommendations X.21 and X.21 bis
		ZS ETSI ETS300 103	* Integrated Services Digital Network (ISDN); Support of CCITT Recommendation X.21. X.21 bis and X.20 bis based Data Terminal Equipments (DTEs) by an ISDN Synchronous and asynchronous terminal adaption functions
		ZS ITU-T	
		Recommendation X.21	* Interface between Data Terminal Equipment and Data Circuit-termination equipment for synchronous operation on Public Data Network
		ZS ITU-T Recommendation X.21 bis	* Use on Public Data Networks of Data Terminal Equipment (DTE) which is designed for interfacing to Synchronous V-Series Modems
	Frame Relay	ZS ETSI TCRTR 020	* Network Aspects (NA); European frame relay services
		ZS ETSI ETS300 399-1	* Frame relay services; Part 1: General description
		ZS ETSI ETS300 399-2	* Frame relay services; Part 2: Integrated Services
			Digital Network (ISDN); Frame relay bearer
		ZS ETSI ETS300 399-3	* Frame relay services; Part 3: Frame relay data transmission service; Service definition

Health and Safety

Type of Health and	Applicable Standard	Description
Safety standard		
Electrical	EN 60950 or IEC 60950	* Safety of information technology equipment
Radio and SAR	ZS EN 50360	* Product standard to demonstrate the compliance of mobile phones with the basic restrictions related to human exposure to electromagnetic fields (300 MHz - 3 GHz)

	EN 50371	* Generic standard to demonstrate the compliance of low power electronic and electrical apparatus with the basic restrictions related to human exposure to eletromagnetic fields(10 MHz - 300 GHz) - General public
	ZS EN 50385	* Product standard to demonstrate the compliance of radio base stations and fixed terminal stations for wireless
	EN 50392	* Generic standard to demonstrate the compliance of electronic and electrical apparatus with the basic restrictions related to human exposure to electromagnetic fields (0 Hz - 300 GHz)
	ZS EN 60215	* Safety requirements for radio transmitting equipment
Optical and laser	ZS EN 60825-1 or ZS IEC 60825-1 ZS EN 60825-2 or ZS IEC 60825-2	* Safety of laser products - Part 1: Equipment classification, requirements and user's guide * Safety of laser products - Part 2: Safety of opticla fibre communication systems

EMC

Type of EMC standard	Applicable Standard	Description
Information	ZS EN 55022 or CISPR 22	* Radio disturbance characteristics
technology		* Limits and methods of measurement
equipment	ZS EN 55024 or CISPR 24	* Immunity characteristics
		* Limits and methods of measurement
	ZS EN 61000-3-2 or ZS IEC 61000-3-2	* Limits for harmonic current emissions (equipment input
		current up to and including 16 A per phase) * Limitation of voltage changes, voltage fluctuations and flicker in
	ZS EN 61000-3-3 or ZS IEC 61000-3-3	public low-voltage supply systems
		* Equipment with rated current <=75 A and subject to conditional connection * Limitation of voltage changes, voltage fluctuations and flicker in
Limits	ZS EN 61000-3-11 or ZS IEC 61000-3- 11	public low-voltage supply systems * Equipment with rated current <= 75 A and subject to conditional connection * Electromagnetic compatibility and Radio spectrum Matters

		(ERM)
		* ElectroMagnetic Compatibility (EMC) standard for
	ETSI EN 301 489	radio
		equipment and services
		* Various parts as applicable to terminal type
	ZS EN 61000-6-1 or ZS IEC 61000-6-1	* Immunity for residential commercial and light- industrial
		environments
	ZS EN 61000-6-2 or ZS IEC 61000-6-2	* Immunity for industrial environments
Generic standards	ZS EN 61000-6-3 or ZS IEC 61000-6-3	* Emission standard for residential, commercial and light-
		industrial environments
	ZS EN 61000-6-4 or ZS IEC 61000-6-4	* Emission standard for industrial environments

APPENDIX 3 **ZICTA Type Approval Label**



- i. The characters shall appear in black print against a white background.
- ii. The colour code is

<u>Blue</u>

- a. C: 100
- b. M:100
- c. Y: 0
- d. K: 0

<u>Black</u>

- a. C: 0
- b. M: 0
- c. Y; 0
- d. K: 100
- iii. No character shall be less than 2mm in height.
- iv. The word "ZICTA" shall be at least 3mm in height. The size ratio of all the characters and symbol shall be maintained relative to ZICTA.
- v. Where "ZMB/ZICTA/TA/YYYY/.." appears shall be substituted the registration type approval certificate number allocated by ZICTA to the concerned equipment model.