

TECHNICAL SPECIFICATION

FOR

DIGITAL TERRESTRIAL TELEVISION BROADCASTING SYSTEM (DVB-T2)

ISSUED BY

BOTSWANA COMMUNICATIONS REGULATORY AUTHORITY

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Technical Specification for Digital Terrestrial Television Broadcasting System (DVB-T2)

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Scope

This specification applies to all digital terrestrial television broadcasting systems (DVB-T2) to be used in Botswana

Entry into Force

This specification shall enter into force on 15/01/2016

Document History

Description	Status	Date
Digital Terrestrial Television Broadcasting	Original V1	11/12/2015
System (DVB-T2)		

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Spectrum Allocation

The following frequency band has been allocated for use of digital terrestrial television broadcasting systems (DVB-T2) in Botswana: VHF: 174 to 230 MHz, UHF: 470 to 862 MHz

Health, Safety, and Generic Emissions

The following universal specifications shall be applied.

TS0001: Health, Safety and Generic Emissions of Radio and Telecommunications Terminal Equipment

Technical, Spectrum and EMC Requirements

The following specifications shall be applied.

ETSI EN 300 429: Informative Reference Document - Digital Video Broadcasting (DVB); Framing structure, channel coding and modulation for cable systems

ETSI EN 300 468: Normative Reference Document - "Digital Video Broadcasting (DVB); Specification for Service Information (SI) in DVB systems"

ETSI EN 300 744: Normative Reference Document - Digital Video Broadcasting (DVB); Framing structure, channel coding and modulation for digital terrestrial television

ETSI EN 301 489-14 V 1.2.1: Electromagnetic compatibility and Radio Spectrum Matters (ERM); Electro Magnetic Compatibility (EMC) standard for radio equipment and services; Part 14: Specific conditions for analogue and digital terrestrial TV broadcasting service transmitters EMC for terrestrial TV broadcast transmitters

ETSI EN 302 296 V1.1.1: Electromagnetic compatibility and Radio Spectrum Matters (ERM); Transmitting equipment for the digital television broadcast service, Terrestrial (DVB-T); Harmonized EN under article 3.2 of the R&TTE Directive. Transmitting equipment for digital television broadcast service

ETSI EN 302 296-2 V1.2.1: Electromagnetic compatibility and Radio Spectrum Matters (ERM); Transmitting equipment for the digital television broadcast service, Terrestrial (DVB-T); Part 2: Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive. Transmitting equipment for digital television broadcast service

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ETSI EN 302 755 V1.4.1(2015-07): Digital Video Broadcasting (DVB); Frame structure channel coding and modulation for a second generation digital terrestrial broadcasting system (DVB-T2)

ETSI TS 101 162: Normative Reference - Digital Video Broadcasting (DVB); Allocation of identifiers and codes for Digital Video Broadcasting (DVB) systems

ETSI TS 102 606: Normative Reference Document - "Digital Video Broadcasting (DVB); Generic Stream Encapsulation (GSE) Protocol"

ETSI TS 102 773 V1.3.1 (Jan 2012): Informative Reference Document - DVB-T2 modulator interface

ETSI TS 102 831: Normative Reference Document - "Digital Video Broadcasting (DVB); Implementation guidelines for a second generation digital terrestrial television broadcasting system (DVB-T2)"

ETSI TS 102 992: Normative Reference - Digital Video Broadcasting (DVB); Structure and modulation of optional transmitter signatures (T2-TX-SIG) for use with the DVB-T2 second generation digital terrestrial television broadcasting system

ISO/IEC 13818-1: Normative Reference Document - "Information technology - Generic coding of moving pictures and associated audio information: Systems"

ISO/IEC 14496: Informative Reference Document - Coding of audiovisual objects (MPEG-4)

Important Note: The revision numbers of the documents given in the approval standard are the minimum standards that apply. Should updated versions of these documents be published, the latest version will always apply. This also applies to documents where no revision number is currently quoted

Additional Requirements

Additional requirements exist for the use of Digital terrestrial television broadcasting system (DVB-T2) at this time. A licence must be obtained before equipment of this type can be used in Botswana. This licence will detail conditions of use and any additional requirements which must be met

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Obtaining Technical Standards

ETSI technical standards may be obtained free of charge for individual use from the ETSI web site. www.etsi.org

CENELEC, IEC and CISPR standards may be obtained at cost from, or through www.cenelec.org and from www.iec.ch respectively.

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