



المملكة الأردنية الهاشمية

The Hashimite Kingdom of Jordan
Telecommunications Regulatory Commission

Conditions and Compliance List (Requirements & Specifications) necessary for
obtaining Type Approval for Digital Cordless Telephone (CT2)
For use within the confined Area of a building In the Frequency bands
864/ 868 MHz

Telecommunications Regulatory Commission (TRC)

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Conditions:

1. The type approval for Cordless Telephone CT2 in Jordan is restricted to a confined area of a building.
2. The effective isotropic radiated power (e.i.r.p.) out of the antenna should not exceed 10 mw.
3. Because the frequencies assigned for CT2 Digital Cordless Telephone are lying within the same band assigned for other applications, users of these equipment must take all the necessary precautions to not cause any harmful interference for other users of the same band, and not to demand any interference protection for their equipment.
4. Frequencies for users of CT2 Digital Cordless Telephone are not assigned on individual basis (it will be shared with other users).
5. The antenna for the handportable part (CPP) shall be permanently attached. It shall not be possible to easily detach, substitute or adapt the antenna provided by the manufacturer.or attach to any out source transmission facility.
6. The maximum permissible transmmission distance (Range) from the base to portable is limited to :
Outdoor : 300 m
InDoor : 50 m.
7. In case of connection with licensed public telecommunications networks (PSTN, ISDN, GSM, ...etc) or any telecommunications technology aside from the (Digital CT2 Cordless Telephone), the Cordless Telephone standards must comply with the Public networks or other telecommunications standards accredited by the TRC.

1 GENERAL REQUIREMENTS

1.1 Scope of Specification

1.1.1 This specification prescribes the minimum requirements for Cordless Telephone equipment (CT2) which permits, by radio means, some or all of the functions of normal telephone apparatus and comprises one or more single PSTN line fixed parts (CFP), one or more antenna systems, and one or more cordless portable parts (CPP).

1.1.2 Equipment which is intended for connection to the PSTN or a private branch exchange will be required to meet the requirements specified in the TRC Type Approval Specification for telephone network equipment, PSTN.

1.1.3 Additionally, the manufacturer will be required to make a declaration of compliance or non-compliance of parameters, capabilities, etc., with the DTI's Common Air Interface Specification (MPT 1375). It will be the manufacturer's responsibility to:

- a) Supply the measured value of the parameter, characteristic, etc.
- b) Be prepared to submit full details as to how the item was tested, test results, and in general full documentary evidence that the testing was valid.
- c) Be prepared if necessary to reproduce the tests on demand.

1.2 Antennae

1.2.1 The antenna for the handportable part (CPP) shall be permanently attached. It shall not be possible to easily detach, substitute or adapt the antenna provided by the manufacturer.

1.2.2 The antenna for the fixed part (CFP) may be remotely located.

1.3 Power Supply

1.3.1 The CFP and CPP shall be operated with their appropriate power supply units which shall be submitted with the equipment at the time of type approval application. Means for connecting an external power supply to CPP shall be provided.

3 RADIO SPECIFICATIONS (Compliance List)

All items in this section must be completed

Specification	Comply		ACTUAL VALUE	Official Use Only
	YES	NO		
1- Alphanumeric Keypad Layout:				
(ITU-T Rec E.161)(Clause 7.3)				
2- Frequency Bands				
864/ 868 MHz Frequency Range is determined by the lowest and highest frequencies occupied by the power envelope.				
3- Effective Radiated Power				
1 mW to 10 mW				
4- Channel Spacing :				
100 kHz				
5- Number of Channel :				
40				
6- Frequency Accuracy :				
± 10 kHz of nominal				
7- Modulation Deviation :				
14.4 kHz to 25.2 kHz				
8 -Adjacent Channel Power :				
< 10 μW (when integrated within a bandwidth of 80 kHz ± 5%)				
9- Out of Band Power :				
a) < 2.5 μW at 100 kHz from the Arising from TX nominal frequency. Transients b) < 1 nanowatt and 0.5 MHz from the nominal frequency.				

Specification	Comply		ACTUAL VALUE	Official Use Only
	YES	NO		
10- Spurious Emissions:				
a) < 0.2 nanowatt (in the range 864 / 868 MHz). b) 2 nanowatts (in the range 100 kHz to 1 GHz). c) 20 nanowatts (1 GHz to 4 GHz).				
11- Receiver Sensitivity:				
Better than 45 dB(μ V/m).				

Notes

1- SAFETY

1.1 This specification does not cover the radiation limits of radio emissions required for safety and health. Suppliers of equipment are therefore required to declare in their submissions to TRC that the equipment complies with one or more applicable radiation safety standards specifying limits of exposure to radio (nonionising) radiation such as :

- a) Verband Deutscher Elektrolngenieure (VDE) DIN-0848
- b) Directives of the European Community, Directorate General V in Matters of Radio Frequency Electromagnetic Energy
- c) National Radiological Protection Board of the United Kingdom DOCS.NRPB, 4, No. 5 (1993)
- d) Institute of Electrical and Electronic Engineers, IEEE C95.1-1999
- e) National Council on Radiation Protection and Measurements (NCRP) Report 86
- f) Department of Health and Welfare Canada, Safety Code 6
- g) International Commission on Non-Ionising Radiation Protection (ICNIRP) Guidelines for limiting exposure to time-varying EMFs in the frequency range up to 300 GHz.

1.2 It should be noted that compliance with the above radiation safety standards does not of itself confer immunity from legal obligations and requirements imposed by national health or safety authorities.

2 AMENDMENTS AND DECISION

2.1 TRC may change the specification without prior notice in order to keep pace with the continuous improvement in standard development.

2.2 In cases of doubt with regard to the interpretation of type approval specification, the method of carrying out the tests and the validity of the statements made by the manufacturers of the equipment, the decision of TRC shall be final.