

CST Technical Specification

Specification for Software Defined Radio (SDR) Equipment

Document Number: RI108
Revision: Issue 03
Date: October 2023

This technical specification is issued by The Communications, Space and Technology Commission in the Kingdom of Saudi Arabia in accordance with the provisions of the Communications and Information Technology Act issued by Royal Decree No. (M/106) dated 02/11/1443 AH and its bylaw, and the Commission's regulation.

Communications, Space and Technology Commission (CST)
P.O Box 75606 – Riyadh 11588 – Kingdom of Saudi Arabia

Telephone: + 966 1 14618000
Fax: + 966 1 14618120
E-mail: info@cst.gov.sa
Website: www.cst.gov.sa

Document History Table

Version	Issue Date	Description
Issue 1	January 2010	
Issue 2	July 2021	
Issue 3	October 2023	

Table of contents

1- Scope.....	4
2- Enforcement	4
3- General Requirements.....	5
4- Limits and conditions.....	6
5- Licensing Requirements.....	6
6- Additional Requirements.....	6
7- References.....	7

1- Scope

- 1-1 This specification applies to software defined radio equipment.

- 1-2 Software defined radio equipment is defining the radio parameters of a transmitter device in software enabling the user to modify and adjust the wireless parameters of the device.

2- Enforcement

- 2-1 This specification shall enter into force from issue date.
- 2-2 Any previous version of this technical specification is withdrawn.

3- General Requirements

- 3-1 All equipment must comply with the requirement of CST specification GEN001, be safe and must not adversely affect other electrical equipment.
- 3-2 All telecommunications and radio terminal equipment must comply with the relevant technical specifications established by CST. In addition, such equipment may be subject to regulations for Declaration of Conformity or registration. Please visit CST website for details.
- 3-3 If more than one interface type is offered by a piece of equipment, each interface must meet the applicable technical specifications.
- 3-4 It is mandatory that test reports are obtained from a laboratory that has been accredited by a body that is a member of the ILAC Mutual Recognition Arrangement.

4- Limits and conditions

Testing should be carried out to ensure compliance with the listed specifications.

Frequency band	Max Output Power or Magnetic Field	Usage	Standard	Comments
Subject to licensing	Subject to licensing	SDR	EN 301 489-1 Radio standards depend on the frequency used for each device.	

5- Licensing Requirements

A spectrum license is required.

6- Additional Requirements

There is no additional requirements for this technical specification.

7- References

The following referenced documents are indispensable for the application of this document. If no issue or revision number is quoted along with the title of a technical specification or standard, the latest published version should be used.

EN 301 489-1

Electromagnetic compatibility and Radio spectrum Matters (ERM);
Electromagnetic Compatibility (EMC) standard for radio equipment and
services; Part 1: Common technical requirements.