

CITC Technical Specification

Requirements for Radio Modules

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Communications and Information Technology Commission (CITC)
P.O Box 75606 – Riyadh 11588 - Kingdom of Saudi Arabia

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

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Scope

This specification applies to radio modules incorporated in non-telecom designated equipment.

Enforcement

This specification shall enter into force on 01/06/2021.

Any previous version of this technical specification is withdrawn.

General Requirements

All equipment must comply with the requirement of CITC specification GEN001, be safe and must not adversely affect other electrical equipment.

All telecommunications and radio terminal equipment must comply with the relevant technical specifications established by CITC. In addition, such equipment may be subject to regulations for Declaration of Conformity or registration. See www.citc.gov.sa for details.

If more than one interface type is offered by a piece of equipment, each interface must meet the applicable technical specifications.

Further information on the characteristics and presentation of network interfaces can be found by visiting operator's website.

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.

Limits and conditions

- Radio modules must be approved separately in accordance with the applicable technical specifications.
- The following restrictions apply:
 - 1) The radioelements on a radio module must have the radio frequency circuitry shielded. Physical components and tuning capacitor(s) may be located external to the shield, but must be on the module assembly;
 - 2) Any modulation or data inputs on the radio module must be buffered.
 - 3) A power supply regulation must be integrated on the radio module itself.
 - 4) The module must contain a permanently attached antenna, or contain a unique antenna connector, and be marketed and operated only with specific antenna(s)
 - 5) The testing of the transmitter module must be performed in stand-alone configuration.

- 6) The radio module must comply with all technical specifications applicable.
- 7) Testing should be carried out to ensure compliance with the listed specifications.
 - TR102 070-2
 - TR102 070-1

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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.

TR102 070-2

Electromagnetic compatibility and Radio spectrum Matters (ERM);
Guide to the application of harmonized standards to multi-radio and
combined radio and non-radio equipment; Part 2: Effective use of the
radio frequency spectrum

TR102 070-1

Electromagnetic compatibility and Radio spectrum Matters (ERM);
Guide to the application of harmonized standards to multi-radio and
combined radio and non-radio equipment; Part 1: Electro Magnetic
Compatibility

History

For reference, the latest versions of the technical specifications are published on the CITC website www.citc.gov.sa.

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