

Low-Power Wireless Modules

2.4GHz

TS2410

NEW

Construction Design Certification (Technical Compliance) Acquired ARIB STD-T66, RCR STD-33 Compliant



Low Power Radio Module ---TS series---

Overview

The **TS2410** is a compact embedded wireless module operating in the 2.4 GHz band, providing wireless communication for M2M (machine-to-machine),

IoT (Internet of Things), and other wireless communication needs. Battery-powered, with a **line-of-sight range of approximately 150m**.

Wireless communication is possible. Communication is also possible in bandwidth free from wireless LAN interference.

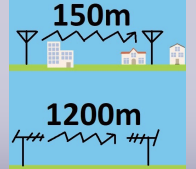
The interface supports **asynchronous serial and SPI**. Beyond chip antennas and dipole antennas, it supports 17 types including **metal surface mount** and **Yagi** antennas, allowing selection based on application needs. It has obtained **Japan's Technical Compliance Certification (Technical compliance)**, enabling license-free use.

Features

- Wireless communication up to 150m line-of-sight with 10mW class transmit power
- Can also operate at reduced transmit power for short-range communication only
- Supports dual modes: ARIB STD-T66 (66 mode) and RCR STD-33 (33 mode)
- RCR STD-33 (33-mode) enables communication in frequency bands immune to wireless LAN interference
- Communication interfaces include asynchronous serial (19,200 bps) and SPI (1 Mbps)
- Compatible with 17 antenna types (chip antenna, dipole antenna, patch antenna, metal surface mount type, Yagi antenna)
- Two antenna terminals are provided, switchable via command
- Supports power supply voltages from 2.1V to 3.6V
- Compact module (25x31x3.1mm)
- Obtained Japanese domestic construction design certification (Technical compliance) (ARIB STD-T66 and RCR STD-33)
- RoHS Compliance

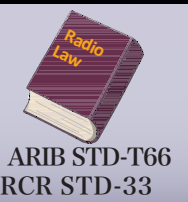


10mW



150m

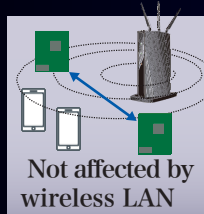
1200m



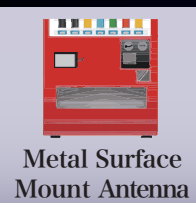
ARIB STD-T66
RCR STD-33



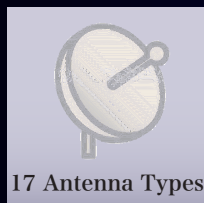
25×31mm



Not affected by
wireless LAN



Metal Surface
Mount Antenna



17 Antenna Types

Electrical Specifications

Compliant Standards	ARIB STD-T66 (66 mode), RCR STD-33 (33 mode)
Transmit power	0.01mW to 10mW class (switchable)
Transmission Speed	2Mbps, 1Mbps, 250kbps
Transmission/Reception Frequency	66 Modes: 2401MHz to 2482MHz / Total 82 Channels 33 Modes: 2473-2495 MHz / Frequency hopping
Receive sensitivity	-94dBm or less @ 0.1% BER (250kbps)
Modulation method	GFSK
Communication Interface	Asynchronous serial (19,200 bps) and SP (1 Mbps)
Power supply voltage	2.1V to 3.6V
Current Consumption	Transmit: Approx. 38mA (25°C, 3.0V, 10mW, 2Mbps)
Connection Method	1.27mm pitch 12-pin connector
Antenna	Built-in chip antenna specifications or external antenna specifications *External antennas: 8 types of omnidirectional antennas (including waterproof types), 3 types of adhesive patch antennas, 3 types of metal surface-mount patch antennas, and 2 types of Yagi antennas
Dimensions	31×25×3.1 (Length×Width×Height [mm]) *Excluding protrusions
Weight	Approx. 2g
Operating Temperature	-20°C to 70°C

Mass production has started!

Please contact us for overseas use, additional antennas, custom firmware, etc.

Caution: It is not compatible with our previous model, the TS24A.

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