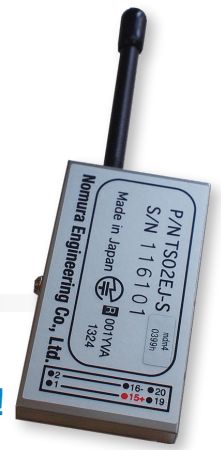


Low Power Radio Module

# TS Series

426MHz, 429MHz, 315MHz,  
2.4GHz, 920MHz



Supports various applications such as contact on/off control and data transmission! Feel free to consult us about customization!



426MHz

## TS01

Compact Embedded Transmitter Module

The TS01 is a 426 MHz band 1mW Specific Low-Power Wireless Module compliant with ARIB STD-T67 compatible with 3V power systems. Communication range is approximately 100m line-of-sight. The transmitter module achieves a compact size of 27×17×3mm through surface mounting. The receiver can directly use the standard 8-contact system or modem system boards designed for TS02E.



429MHz

Long-Range, Stable Response

## TS02H

【TS02H】 is a 429 MHz band 10mW Specific Low-Power Wireless Module compliant with ARIB STD-T67. It operates at low voltage (2.1V) and low power consumption. Selectable communication range (Standard Type: 800m, Long-Range Type: 1 to 2km) and four antenna types. Both transmitter and receiver support certified external antennas. Standard firmware and various application boards are available, with customization options. This noise-resistant, long-range, heavy-duty model is suitable for diverse telemetry and data communication applications, including FA equipment, construction machinery, welfare devices, and agricultural equipment.



315MHz

Low-cost transmission  
Approx. 3mA

## TS03

The 【TS03】 is a 315 MHz band Specific Low-Power Wireless Module compliant with ARIB STD-T93. Communication range is approximately 50m line-of-sight. Low power consumption of about 3mA during transmission, low-cost type. Suitable for on/off control of up to 4 contacts. Toggle operation using two buttons as a pair is also possible with just a solder jumper on the receiver module. The remote control type 【TS03NKHA】 features a compact and lightweight design with external dimensions of 55×32×6.5mm and a weight of approximately 12g (including coin battery), making it ideal for applications like shutter opening/closing and gate control. Custom label production based on original designs is also possible.



2.4GHz

Fastest 2Mbps · 10mW Class

## TS2410

The 【TS2410】 is a 2.4 GHz band advanced Low-Power Wireless Module compliant with ARIB STD-T66 and RCR STD-33. Communication range is approximately 100m line-of-sight with a chip antenna. Seventeen external antenna types are available. Supported wireless transmission speeds are 250kbps, 1Mbps, and 2Mbps. Communication interfaces include baud-synchronized serial (19200bps) and SPI (1Mbps). It enables high-speed wireless data communication for a wide range of applications, from short to medium-long distances. Communication is possible in a frequency band unaffected by wireless LAN.

\*Not compatible with the previous model, TS24A.



920MHz

Switchable transmit power

## TS92

The TS92 is a 920 MHz band Specific Low-Power Wireless Module. It allows switching of transmission power

(1mW/10mW/20mW) and modulation speed (2.4k/4.8k/9.6k/50kbps) via commands. Select from a printed antenna or three external antenna types based on communication range and mounting requirements. Communication interfaces include asynchronous serial and SPI. Standard firmware lineup includes SPI/serial communication types and contact I/O types. Features an intermittent reception mode to reduce current consumption.



400MHz band

## TS02F

Universal RF Module

The TS02F is a universal RF module compliant with radio regulations in Japan, Europe, the US, Australia, South Korea, China, and Taiwan. The module itself is certified.

\*Some countries may require final product certification testing.

\* The F antenna type has obtained overseas certifications. (For Europe, the S antenna and ANT429-MP are also acceptable.)

### Electrical Specifications ;

Product Name	Frequency	Modulation method	Communication range (Line-of-Sight)	Transmit power	Communication Speed <sup>※1</sup> Response (Wireless Space)	Power Supply Voltage	Current Consumption	Operating Temperature	Dimensions (Unit: mm, excluding protrusions)	Other
TS01	426MHz	FSK	100m	1mW	1,800 bps	Transmit: 2.1 to 3.6V Receive: 2.1 to 7.0V	Transmit: 16mA Receive: 15mA	-20°C to 70°C	Transmit : 27×17×3 Receive: 53×30×6.5	Technical compliance certification obtained Compliant with ARIB STD-T67
TS02H	429MHz	FSK	F/S Antenna: 500 to 800m External Antenna : more than 1km	10mW	Standard Type 1,800 bps	2.1 to 7.0V	Transmit: 28mA Receive: 25mA	-20°C to 70°C	53 × 30 × 6.5	Technical compliance Certified ARIB STD-T67 compliant, RoHS, CE
TS03	315MHz	ASK	Approx. 50m	250μW (eirp)	ON: Approx. 8 0msec OFF: 240msec or less	Transmit: 2.1 to 3.6V Receive : 2.2 to 3.5V	Transmit: 2.5mA Receive: 11mA	-10°C to 60°C	Transmit : 29×40×3.5 Receive: 29×40	Technical compliance Certified ARIB STD-T93 Compliant
TS2410	2.4GHz	GFSK	: Chip antenna: 100m External antenna: 400m	0.01mW to 10mW Class	2M/1M/250kbps	2.1 to 3.6V	Transmit: 38mA (Maximum in 66 mode) Receive: 20mA (High sensitivity)	-20°C to 70°C	25×31×3.1	Technical compliance Compliant with ARIB STD-T66 and RCR STD-33
TS92	920MHz	FSK 4-GFSK	External antenna : more than 1km (When set to 2.4kpbs/10mW/FSK)	1 to 20mW	2.4k/4.8k/9.6k/50kbps	2.1 to 3.6V	Transmit: 37mA (at 10mW) Receive: 27mA	-20°C to 60°C	27×25×3.5	Technical compliance Certified
TS02F	400MHz band	FSK	F/S Antenna: 500~800 m External antenna more than 1 km	10mW	1,800 bps	2.5~3.6V	Transmit: 41mA Receive: 23mA	-20°C to 70°C	53 × 30 × 6.5 mm	Certified for Technical Compliance, Compliant with ARIB STD-T67, RoHS, CE, FCC, RCM, KC, SRRC, NCC