



STAD0103  
4 CHANNEL RF RECEIVER

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4 CHANNEL RF  
RECEIVER

STAD010



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For getting the most benefits from this device please  
read the user manual carefully.

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## Features:

<b>Working voltage</b>	From 12 to 14VDC
<b>Consumption</b>	0.12W(idle)/2W(all relays ON) at 12VDC input.
<b>Frequency receiver range</b>	ISM band - 380 MHz.
<b>Frequency modulation</b>	ASK
<b>Receiving Sensitivity</b>	-103 dbm. (50 Ohm Antenna Direct Input BER3/1000, 3Kbps).
<b>LOS (Line Of Sight) range</b>	Up to 60m.
<b>Device ID support</b>	Yes. Up to 256 devices.
<b>User output channels</b>	<b>Up to 4.</b>
<b>Outputs</b>	4 Dry contact relays (channels) NO with shared COM pins at 7A/250VAC per NO contact typical current handling.
<b>Operating temperature</b>	0-60°C.
<b>Operating humidity</b>	10-80% .
<b>PCB dimensions</b>	25x80x20 mm (W x D x H).
<b>Weight (Total)</b>	180 grams.

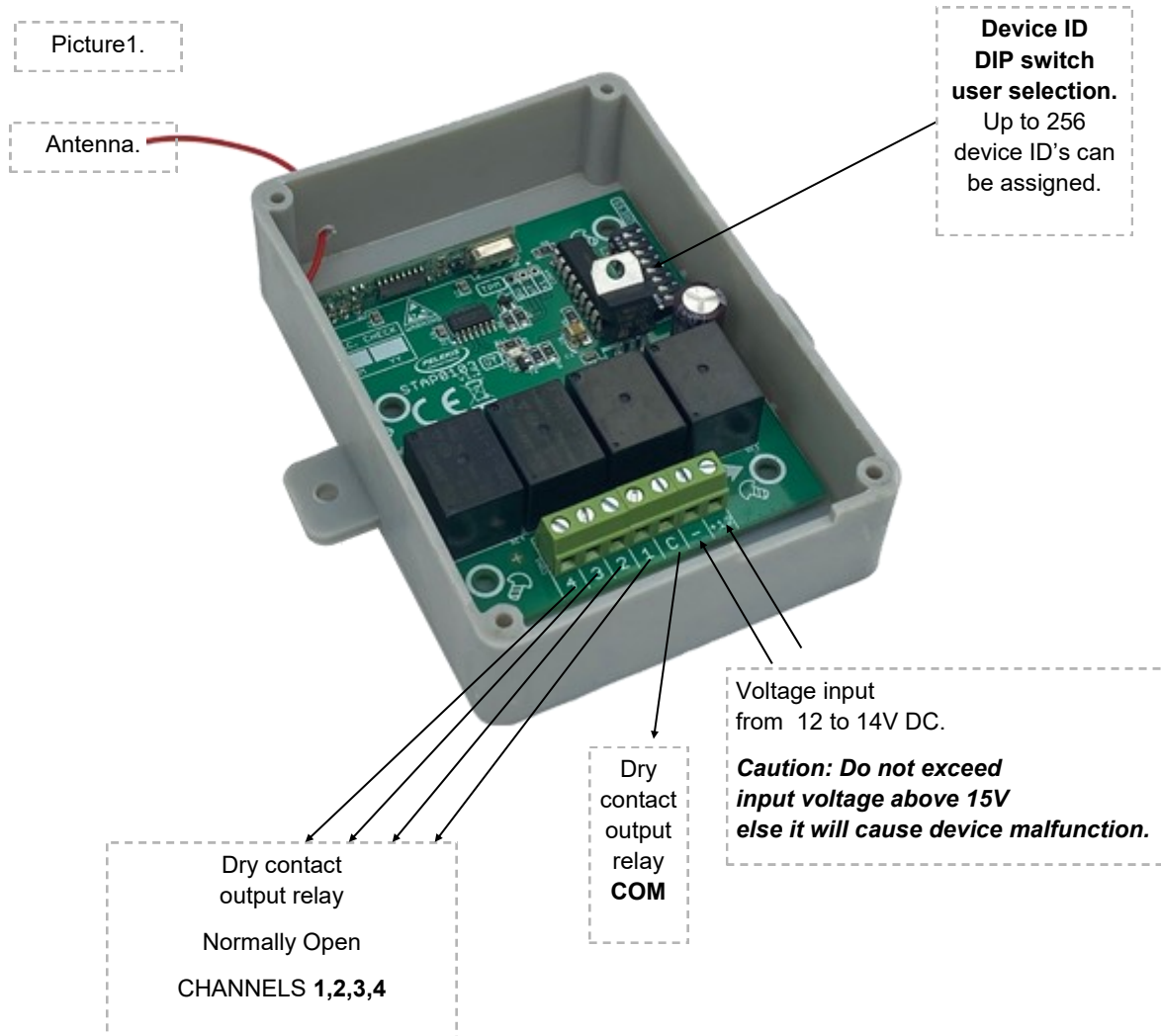
## • Applications:

Used to:

- Elevator.
- Personnel access control.
- VIP access control.
- Residential building access control.
- Electronic lock.
- Usage for Professional/Personal automobile and machinery.

- Connection diagram:

A typical system connection can be seen in the diagram below.



- Device operation description

The STAD1003 device is an RF 4 channel receiver using 4 relay with “dry contacts - Normally open” as outputs (channels).

It is tuned to the ISM band at 380 MHz center frequency for RF communication with our provided 4 channel transmitter.

Each STAD1003 device has a DIP switch selection interface (see Picture1 above), so that a device ID can be assigned accordingly and “listens” to its transmitter only (assigned the same device ID).

**Warning! This device must be installed by qualified personnel only.**



- **Adjustment procedure**

The STAD1003 device received signal's data strength can be adjusted for optimal reception using an oscilloscope and some trimming from the transmitter side.

WARNING: Please make sure the DIP switch ID remains the same during the adjustment on the receiver and the transmitter sides.

#### Adjustment Procedure Steps

1. Put oscilloscope probe ground to the power supply – (GND).
2. Place probe tip hook to the **RF Receiver Signal Monitor pin**. (Pin shown in Picture 1).
3. Put power to the receiver.
4. Press the transmitter button (Any channel).
5. Adjust the trimmer in the transmitter side so that we can measure a maximum amplitude of the received signal about 3.5Vpp.
6. Un-press transmitter button and cycle power supply in receiver.
7. Done

- **Technical support**

For technical support please contact a local office of Pelekis Electronics.

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