

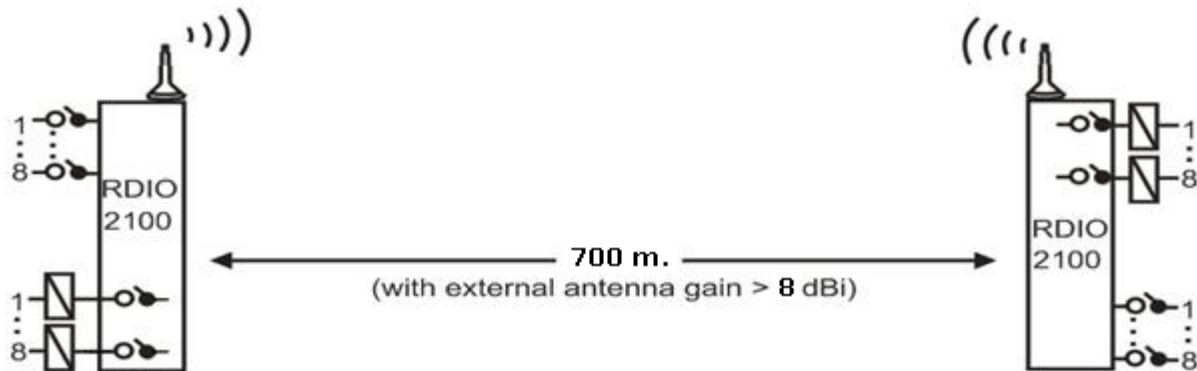
Remote Wireless Switch

RDIO2100



- Control 8 Digital Input/Output
- Long Distance 700 m.
- No Wiring (RF Link)

Remote Wireless Switch RDIO2100 is remote wireless switch. It use for ON/OFF electronic device for long distance. RDIO2000 is radio frequency device so it is cost saving and No need for wiring



When digital input of first RDIO2000 is "ON" then digital output of the second RDIO2000 is "ON". Di1 of RDIO2000 (1) is "ON" then Do1 of RDIO2000 (2) is "NO".

Specifications

Wireless Interface

Frequency Band: 2.4 GHz

RX Sensitivity: (-)102 dBm

TX Power: (+)10 dBm (Max)

Transmission Distance:

Up to 90 m. Indoor/Urban

Up to 700 m. Outdoor RF line-of-sight (With Antenna gain>8dBi)

Antenna Connector: RP-SMA, Jack/Female

Digital Input

Digital Channel: 8 Channels

Sensor Type: Wet Contact or Dry Contact

Wet Contact (DI to COM):

ON: 12 to 24 VDC

OFF: 0 VDC

Dry Contact (DI to GND):

ON: Short to GND

OFF: Open

Isolation: Opto Isolated

Relay Output

Digital Channel: 8 Channels

Relay Type: N.O.

Contact Rating:

5 A @ 250 VAC

5 A @ 30 VDC

Power Requirements

Power Supply: 85 to 230 VAC

12 to 35 VDC (Optional)

Environmental Limits

Operating Temperature: 0 to 55 °C

Operating Humidity: 5 to 95 %RH

Storage Temperature: 0 to 70 °C

Physical Characteristics

Dimension: W160 x H90 x D60 mm.

Mounting: DIN Rail

Warranty

Warranty Period: 5 Year

Ordering Information: Specify Power Supply

Example RDIO2100/220VAC

Package Checklist

- RDIO2100

Wiring

<p>Supply</p>	<p>DO: Relay Dry Contact</p>
<p>DI: Dry Contact</p>	<p>DI: Wet Contact (PNP Output)</p>
<p>DI: NPN Open Collector</p>	<p>DI: Wet Contact or D.C. Pulse</p>

Note: G = GND, C = COM

NOTE: When turn on device Power LED is "on" and RDIO2100 start to connecting to its pair. Connecting status indicate by LED light, Quickly blink is mean "connected" and slowly blink is mean "connecting fail"

DIP Switch 1	Last Status Mode
OFF	Digital Output OFF
ON	Hold Digital Output

There are 2 required setting

- Status of DO when is no connecting
- Delay time for time out, if there is no response until delay time is run out RDIO2100

will show connecting error. For example. If time delay time for time out is set at 5 seconds, after sending connection it will wait or 5 seconds if there is no response within 5 seconds error is occur. Table below is show dip switch for setting delay time

Delay Time (Sec.)	DIP Switch 4	DIP Switch 3	DIP Switch 2
5	OFF	OFF	OFF
10	OFF	OFF	ON
15	OFF	ON	OFF
20	OFF	ON	ON
25	ON	OFF	OFF
30	ON	OFF	ON
35	ON	ON	OFF
40	ON	ON	ON

Table below is show dip switch for setting amount of repeater in the network

Dip Switch			จำนวน Repeater
6	7	8	
OFF	OFF	OFF	1
ON	OFF	OFF	2
OFF	ON	OFF	3
ON	ON	OFF	4
OFF	OFF	ON	5
ON	OFF	ON	6
OFF	ON	ON	7
ON	ON	ON	8

*** in case of no repeater Dip switch 6, 7 and 8 should be set at OFF position

