

# NG-Rio



- 2 inputs for ON/OFF status and/or pulses from the connected meters (electricity, water, gas) and 2 relay outputs.
- Wireless connection to NG-W169, the Gateway with RTU Modbus RS458 serial. NG-Rio sends inputs' status to receive the outputs'.
- Wireless communication with other NG-Rio. A local input to control remote outputs.
- Automatic installation procedure for the 169MHz wireless network.
- 169MHz radio frequency band to cover distances up to 1 km. Particularly suitable for indoor installations.

## Applications

Local control of remote loads (e.g. ON/OFF) sending the information to the gateway (NG-W169) that, via RTU Modbus protocol, makes the data available; NG-Rio can manage loads' ON/OFF management with its output relays (e.g. lighting, HVAC, etc.). Reduce installation time and costs and avoid wire connection between the control panel and the load to monitor.

## Loads' remote control

General	
AC power supply	100 ÷ 240 Vac 50/60 Hz
DC power supply	140 ÷ 340 Vdc
Consumption	< 0.2A @ 85Vac-265Vac, at full load
Protection	Over Current and Over Temperature
Dimensions	3 DIN modules (approx. 54x90x60mm)
Box	PC + ABS
Weight	100g
Front panel	GREEN LED for operative status signals RED LEDs for outputs status
Working temperature	-10 °C to +65 °C

Min 3 kV insulation between power supply and digital Input, relay Output and antenna connection

Inputs	
Type	Clean contact – active 12 Vdc insulated digital pulse up to 30 Hz frequency and 15 milliseconds minimum pulses' duration
Connection (3,5mm pace)	Extractable polarized connector.
Outputs	
Type	C-NC-NO Relays
Flow	250V - 12A (500mW min)
Guaranteed cycles	250.000
Control	Internal, Electronic
Protection	275V Varistors for contacts' overvoltage
Connection (5mm pace)	Extractable polarized connector.
Frequency	169 MHz
Power	+15 /+21 /+27 dBm
Antenna connection	Female SMA