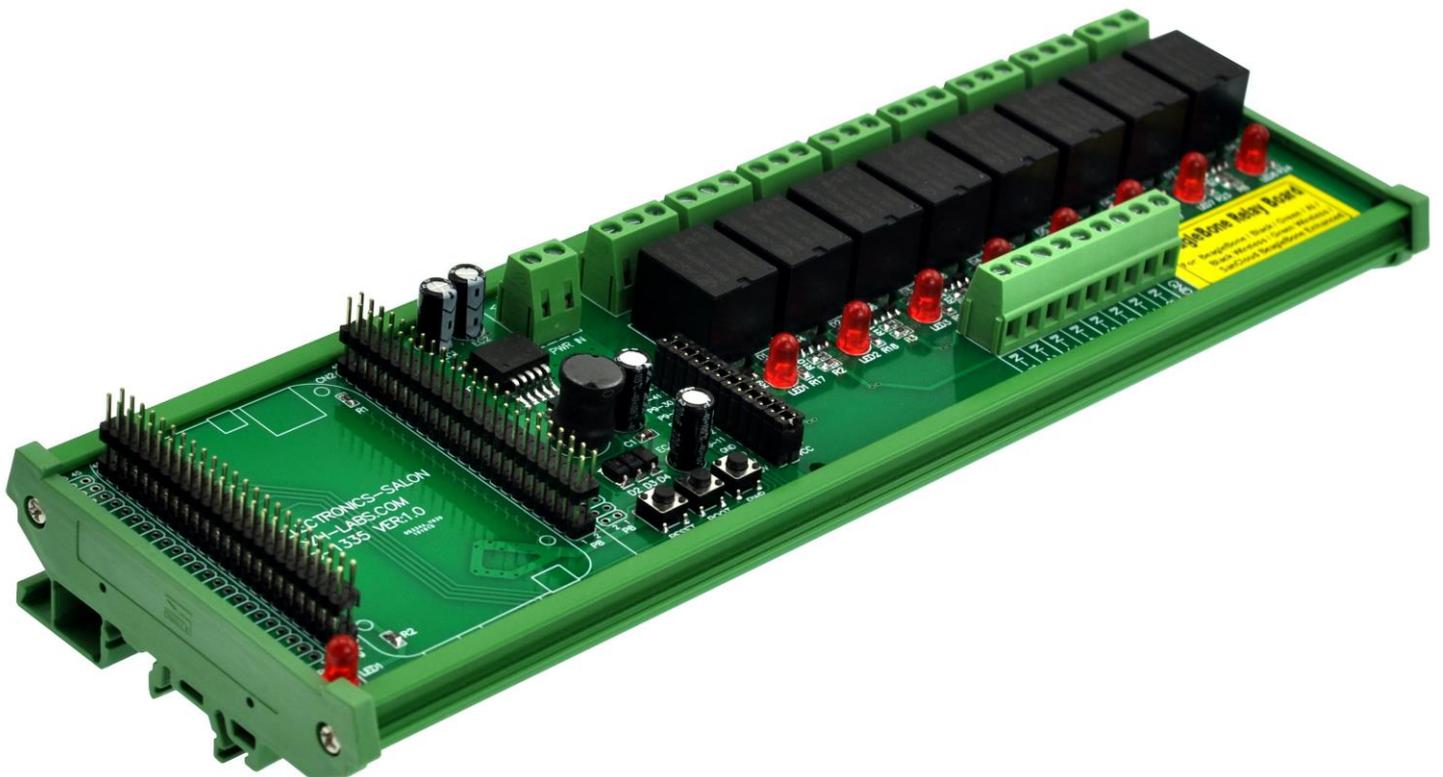


Electronics-Salon CZH-LABS.com

DIN Rail Mount IoT Power Relay Module for BreagleBone
SKU MD-D1335T-1



Features:

- **DIN Rail Mount IoT Power Relay Module for BreagleBone, with the module you can easily extend BreagleBone projects to IoT/industrial control applications. Support for BeagleBone, BeagleBone Black, BeagleBone AI, BeagleBone Black Wireless, BeagleBone Green, BeagleBone Green Wireless or SanCloud BeagleBone Enhanced (NOTE: the item not include BreagleBone board).**
- **Support DC 5V or DC 7V ~ 32V power supply. With a RESET / BOOT / PWR button on board for BreagleBone Black.**
- **Relay action LED indication corresponds to each channel. Support pin jumper chose control signal from BreagleBone or external signal.**
- **8 channels SPDT power relays. Contact Rating (each channel): 125VAC/12A, 277VAC/10A or 30VDC/10A.**
- **FR-4 glass fiber PCB. High quality fireproof nylon material DIN rail mount carrier, can support width 35mm / 32mm / 15mm rail.**

Power Supply:

Support DC 5V(from [BreagleBone Power Jack](#)) or DC 7V ~ 32V(from [PWR IN V+/GND terminal block](#)) power supply, **But can't support simultaneous power supply of both.**

From BreagleBone Black Power Jack, must a 5V DC adapter and maximum current > 2 Amp.

From PWR IN V+/GND terminal block, can support 7V ~ 32V.

For 7V maximum current must > 1.5A

For 9V maximum current must > 1.2A

For 12V maximum current must > 1A

For 15V maximum current must > 0.8A

For 18V maximum current must > 0.7A

For 24V maximum current must > 0.5A

For 32V maximum current must > 0.4A

Pin Jumper Control Signal Chose:

Support pin jumper chose control signal from BreagleBone or external signal.

From BreagleBone Black, short all pin jumpers, GPIO output HIGH relay action,

GPIO output LOW relay no action.

P8-11P control relay 1

P8-12P control relay 2

P8-15P control relay 3

P8-17P control relay 4

P9-27P control relay 5

P9-30P control relay 6

P9-41P control relay 7

P9-42P control relay 8

From external signal control, IN1 ~ in8 pin jumpers must be removed (GND and VCC pin jumper must be reserved), control signal connect to terminal block IN1 ~ IN8.

Control signal voltage: 2.5~32V relay action, 0V relay no action.

Relay:

Part Number: JQC-3FF 5VDC Power Relays.

Manufacturer: Hongfa.

Contact type: SPDT(Single Pole Double Throw).

Contact Rating (each channel): 125VAC/12A, 277VAC/10A or 30VDC/10A.

Terminal Block:

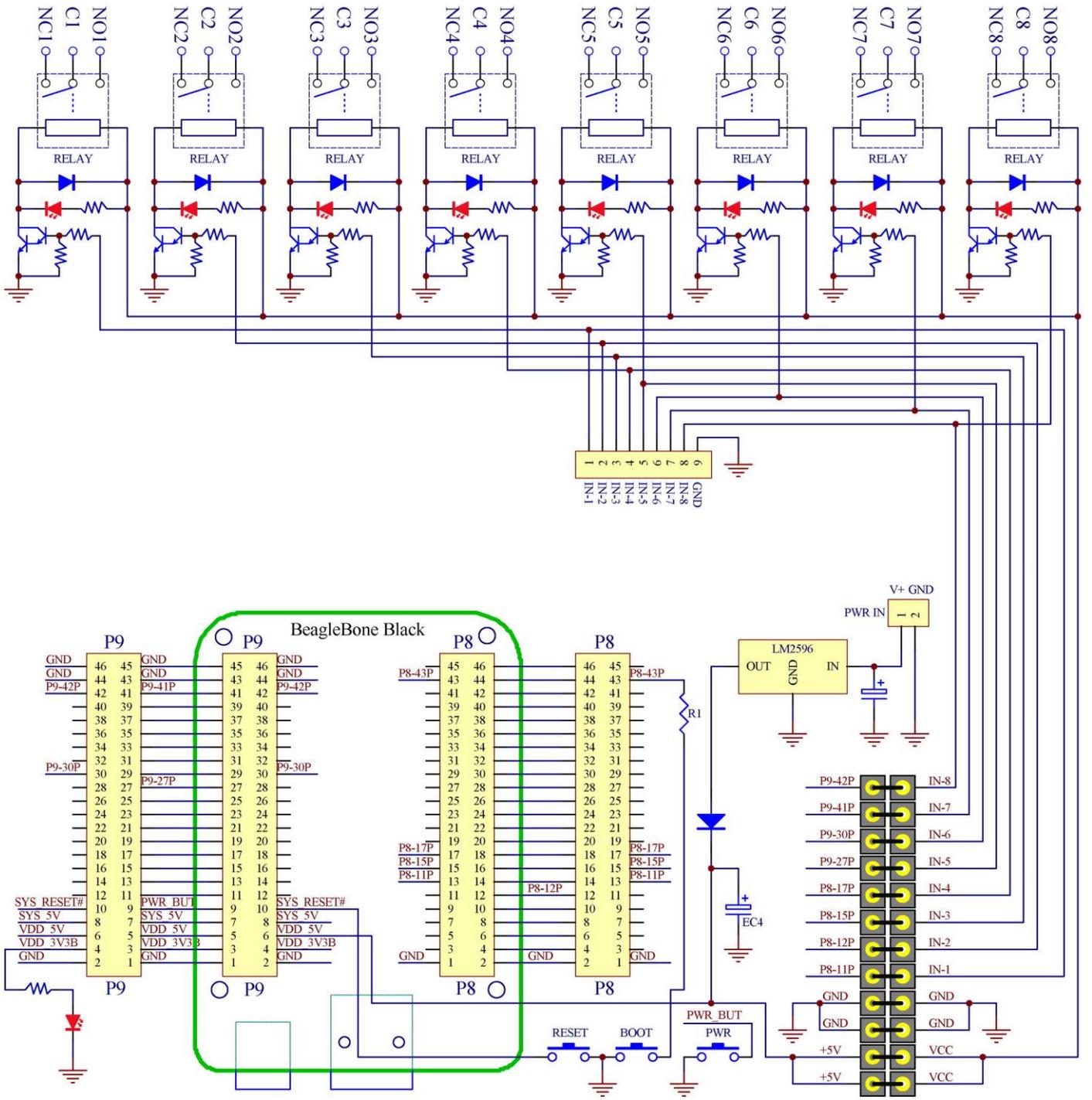
Pitch 5.0mm/0.197"

Strip length 7mm, screws - M2.5, steel, Cr3+ Zn plated.

Pin header and cage - brass.

Wire range 28AWG ~ 12AWG / 2.5mm square.

Simple Schematic(not 100% real schematic):



Dimensions:

