1/ MCP23017

2/ 16 leds to signal (3.3V is on, 0.0V is off)

PortA: red

PortB: green

# 3/ Cổng DC3 18pin Chân 2 Hàng 2.54mm Chân Thẳng

![Diagram, engineering drawing

Description automatically generated]()

<https://www.thegioiic.com/cong-dc3-18-chan-2-hang-2-0mm-chan-thang>

1 pin : VCC

1pin: GND

16 pin GPIO

# 4 HB8.25-8 Terminal - 8.25mm Hàn PCB

# Diagram, engineering drawing Description automatically generated

# <https://www.thegioiic.com/hb8-25-8-terminal-khoi-han-pcb-8-cuc-20a-300v-8-25mm-han-pcb>

# Diagram, engineering drawing Description automatically generated

# <https://www.thegioiic.com/hb8-25-2-terminal-khoi-han-pcb-2-cuc-20a-300v-8-25mm-han-pcb>

layout

Chart

Description automatically generated

<https://www.thegioiic.com/module-relay-g2r-2-16-kenh-12vdc>

![A picture containing electronics, circuit

Description automatically generated]()

A close-up of a circuit board

Description automatically generated with medium confidence