

# lamaPLC: PCF857x I/O Expander chip/modul with I<sup>2</sup>C communication

The PCF857x series consists of I<sup>2</sup>C-based general-purpose I/O (GPIO) expanders manufactured by NXP and Texas Instruments. They allow microcontrollers (such as Arduino, ESP32, or Raspberry Pi) to control multiple digital pins with only two wires: Serial Data (SDA) and Serial Clock (SCL).



Feature	PCF8574 / PCF8574A	PCF8575
<b>GPIO Count</b>	8-bit (8 pins)	16-bit (16 pins)
<b>I<sup>2</sup>C Base Address</b>	<b>0x20</b> (PCF8574) / <b>0x38</b> (PCF8574A)	<b>0x20</b>
<b>Max Devices on 1 Bus</b>	8 units	16 units
<b>Operating Voltage</b>	2.5V to 6V	2.5V to 5.5V
<b>Interrupt Output</b>	Yes (Open-drain INT)	Yes (Open-drain INT)

The current limits of the PCF857x are heavily lopsided because of its quasi-bidirectional architecture. It handles current entirely differently depending on whether you are sinking current (outputting 0/LOW) or sourcing it (outputting 1/HIGH).

The [I<sup>2</sup>C LCD adapter](#) utilizes the PCF8574.

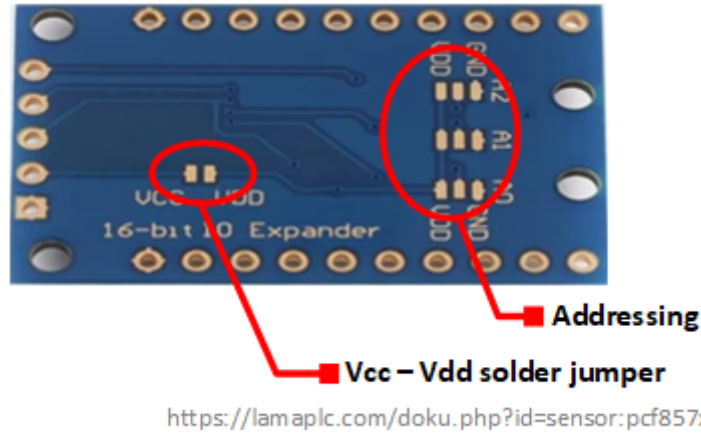
## PCF857x Pinout

- **VCC:** Power input. Connects to **3.3V or 5V** to match your microcontroller's logic levels.
- **VDD:** Power input. Connect the external hardware power to **3.3V or 5V**.
- **GND:** Common ground reference.
- **SDA:** Serial Data line for I<sup>2</sup>C communication.
- **SCL:** Serial Clock line for I<sup>2</sup>C communication.
- **INT:** Interrupt output (Active Low). Pulls low to alert the microcontroller when an input pin changes state, eliminating the need for software polling.

## 8/16-Bit I/O Extension Pins

- **Port 0** (P00 to P07): The first group of 8 quasi-bidirectional GPIO pins.
- **Port 1** (PCF8575 only, P10 to P17): The second group of 8 quasi-bidirectional GPIO pins.

## PCF857x Reverse side of the module



## PCF857x Vcc and Vdd

Pin	Function	Typical Target	Voltage Role
<b>VCC</b>	Microcontroller (Logic) Side	Connect to your MCU's power pin (e.g., 3.3V or 5V).	Sets the operating reference voltage for the I <sup>2</sup> C communications line (SDA/SCL).
<b>VDD</b>	Peripheral (Device) Side	Connect to the external hardware power (e.g., 5V).	Directly sets the high voltage logic level of the 16 target output/input pins (P00-P17).

### The Crucial Condition: Check the Solder Jumper

For this dual-voltage (3.3V/5V) configuration to work safely, the onboard VCC-VDD solder jumper must be open (disconnected).

- If **the jumper is open**, the module's built-in level shifters are enabled. The I<sup>2</sup>C lines (SDA/SCL) will communicate securely at 3.3V with your microcontroller, while the 16 I/O pins (P00-P17) will operate at 5V, since the expander logic runs at the VDD level.
- If **the jumper is bridged**, VCC and VDD are connected together. Applying 3.3V to VCC and 5V to VDD can create a short circuit, leading to overheating and **possible damage to your microcontroller**.

## PCF857x module's addressing

To assign a specific 7-bit hex address, use a soldering iron to connect the center pad of each group to either GND or VCC.

A2 Status	A1 Status	A0 Status	Resulting Binary Offset	Hex I <sup>2</sup> C Address
<b>GND (Open)</b>	GND (Open)	GND (Open)	000	0x20 (Default)
<b>GND (Open)</b>	GND (Open)	VCC (Bridged)	001	0x21
<b>GND (Open)</b>	VCC (Bridged)	GND (Open)	010	0x22
<b>GND (Open)</b>	VCC (Bridged)	VCC (Bridged)	011	0x23
<b>VCC (Bridged)</b>	GND (Open)	GND (Open)	100	0x24
<b>VCC (Bridged)</b>	GND (Open)	VCC (Bridged)	101	0x25
<b>VCC (Bridged)</b>	VCC (Bridged)	GND (Open)	110	0x26
<b>VCC (Bridged)</b>	VCC (Bridged)	VCC (Bridged)	111	0x27

## PCF857x using I/O pin

### Sinking Current (Output LOW / Connecting to Ground)

- **Maximum per individual pin:** 25 mA (typical) / 20 mA for extended use.
- **Maximum combined total (all 16 pins combined):** 100 mA.
- **The Math:** If you activate all 16 pins simultaneously at LOW logic, you can only allocate a maximum of 6.25 mA per pin ( $100 \text{ mA} \div 16$ ) to avoid overloading the chip.

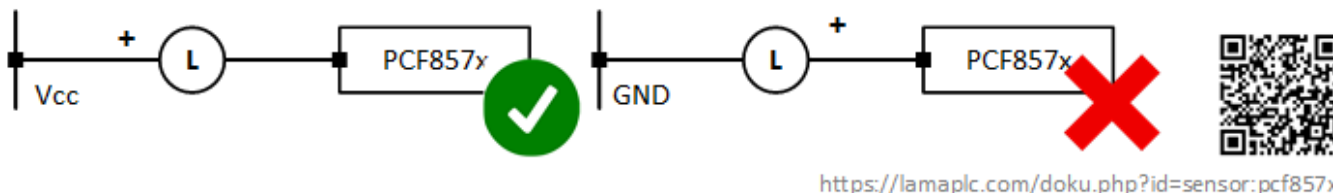
### Sourcing Current (Output HIGH / Connecting to VCC)

This is the weak mode meant mostly for sensing state changes.

- **Maximum per individual pin:** Only 100  $\mu\text{A}$  (0.1 mA).
- **The Limit:** This current is too weak to directly light up an LED or actuate a standard relay trigger.

### How to Correctly Wire Components

- **Correct (Sinking):** Connect your load's positive wire to VCC, and the negative side (through a current-limiting resistor) directly to the PCF857x I/O pin. Setting the pin LOW completes the path to ground and activates the load.
- **Incorrect (Sourcing):** Connecting your load's positive wire to the PCF857x I/O pin and the negative side to Ground will fail, as the pin cannot supply sufficient current.



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## PCF857x wiring with relay modules

Connecting optocoupled relay modules to the PCF857x is a common practice, but it requires strict electrical care. Because of the chip's asymmetrical quasi-bidirectional ports, a mistake in how you trigger the relay will prevent it from working entirely.

### The Triggering Rule: Active LOW Only

- **Why Active HIGH fails:** Standard optocoupled multi-channel relay modules require 2-5 mA of logic current on their IN pins to light the internal infrared LED and engage the circuit. Because the PCF8575 can source only 0.1 mA when outputting HIGH, it cannot trigger an Active HIGH configuration.
- **Why Active LOW works:** When configured as Active LOW, the PCF8575 acts as a ground connection (0V), cleanly sinking the current from the relay module. The PCF8575 can safely sink up to 20 mA per pin, easily meeting the relay's current requirements.

For example, the [HL-54 \(4-channel 3.3V optocoupled relay module\)](#) can be directly connected to the PCF8575. Because the HL-54 is hardwired as an Active LOW module, it is perfectly suited to the PCF8575's current limits.

## I<sup>2</sup>C topics on lamaPLC

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- [lamaPLC: ESP32 / ESP8266](#) 2025/11/22 00:07 [esp8266, esp32, esp32-c2, esp32-c3, esp32-c5, esp32-c6, esp32-c61, esp32-h2, esp32-s2, esp32-s3, esp32-p4, espressif systems, communication, ethernet, ip, wi-fi, thread, zigbee, matter, homekit, bluetooth, mqtt, adc, spi, uart, i2c, i2s, rmt, pwm, usb, usb otg, twai](#)
- [LamaPLC: Gas sensors](#) 2023/07/01 17:29 [gas, sensor, i2c, onewire, communication, mq-3, mq-4, mq-5, mq-6, mq-7, mq-8, mq-9, mq-135, gm-102b, gm-302b, gm-502b, gm-702b, alcohol, ch4, natural gas, smoke, lng, co, co2, lpg, h2, iso-butane, nox, nh3, benzene, town gas, formaldehyde, propane, humidity, temperature, voc, grv gas sens v2](#)
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- [LamaPLC: VL6180X STMicroelectronics Time-of-Flight \(ToF\) sensor with I<sup>2</sup>C communication](#) 2026/04/23 21:52 [vl6180x, stmicroelectronics, time-of-flight, tof, i2c, communication, sensor, arduino, code](#)
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- [Magnetic angle sensors](#) 2026/04/23 21:52 [magnetic angle sensor, magnetic flux, sensor, spi, i2c, pwm, communication, modul, as5047p, as5600, mt6701, mt6816, mt6835, tle5012b, amr, gmr, tmr, anisotropic magnetoresistive](#)
- [SSH1106/SSD1306 OLED Display with I<sup>2</sup>C communication](#) 2026/02/14 18:27 [i2c, oled, display, ssd1306, sh1106, ssh1106, arduino, cmos](#)

[communication, i2c, PCF857x, PCF8574, PCF8574A, PCF8575, I/O Expander, I/O Extension, I2C, NXP, Texas Instruments](#)

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