Product Overview

Arduino Opta is a secure, easy-to-use **micro PLC with Industrial IoT capabilities**. Designed in partnership with Finder, leading industrial and building automation device manufacturer, it allows professionals to scale up automation projects while taking advantage of the open and widely known Arduino ecosystem. Thanks to its computing power, Arduino Opta enables a wide range of **real-time control, monitoring** and **predictive maintenance** applications.

Quickly put it to work, leveraging the many **available software libraries**. The onboard **secure element** ensures **over-the-air firmware updates** and **remote control** via the Arduino Cloud or third-party services.

Arduino Opta is available in **three variants**:

- **Opta Lite**: onboard Ethernet and USB-C ports
- **Opta RS485**: onboard Ethernet and USB-C ports, plus RS485 connectivity
- **Opta WiFi**: onboard Ethernet and USB-C ports, plus RS485 and Wi-Fi/Bluetooth® Low Energy

Benefits

- Easy and fast software development, starting from ready-to-use Arduino sketches, tutorials and libraries
- Optional support for standard IEC 61131-3 PLC languages
- Fieldbus integration via Modbus TCP (Ethernet) and Modbus RTU (serial RS485)
- Seamless IIoT connectivity (Ethernet/Wi-Fi/Bluetooth® Low Energy)
- Real-time remote monitoring via intuitive Arduino Cloud dashboards or third-party services
- Security at the hardware level thanks to onboard secure element and compliance with X.509 Standard
- Secure OTA firmware updates and cloud device management
- High power relay switching (4 x 2.3 kW)
- Reliable by design, thanks to industrial certifications and Finder's expertise in switching technology
- Easy DIN rail installation

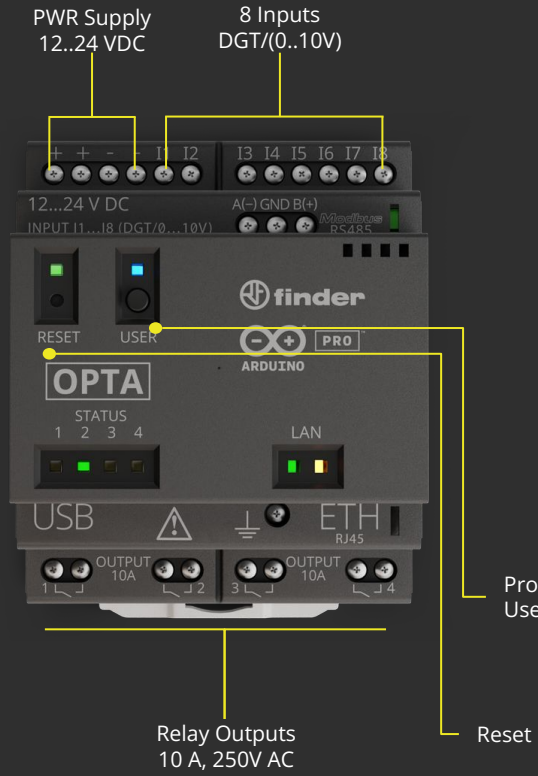
Technical Specs

Input	8x configurable digital / analog (0-10V) input	**Output**	4x relays (250 V AC - 10 A)

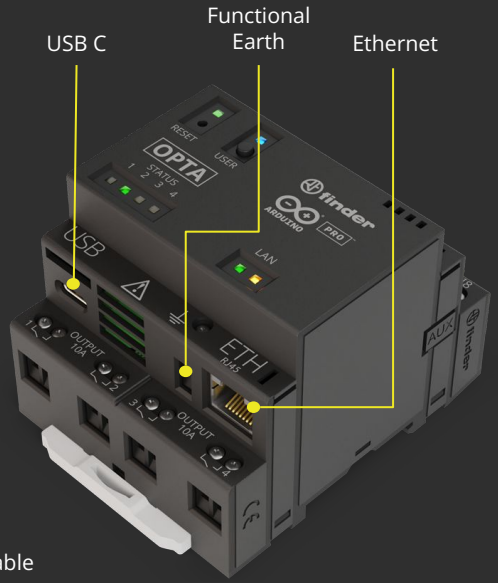
Processor	STM32H747XI Dual ARM® Cortex®:
	• Cortex -M7 core up to 480 MHz
	• Cortex -M4 core up to 240 MHz
		Programming languages	• Arduino programming language via IDE
			• IEC-61131-3 as option:
			  ○ Ladder Diagram (LD)
			  ○ Function Block Diagram (FBD)
			  ○ Sequential Function Chart (SFC)
			  ○ Structured Text (ST)
			  ○ Instruction List (IL)

Connectivity	• Support 10/100 Ethernet (TCP/IP or Modbus TCP) • USB-C • Wi-Fi + Bluetooth® Low Energy (Opta WiFi only) • RS485 half duplex (Opta RS485 and Opta WiFi only)	**Security**	ATECC608B Secure element
Memory	1MB RAM (programming) 2MB internal + 16MB Flash QSPI	**Supply voltage**	12…24 V DC
RTC	Typical 10 days power retention at 25°C NTP sync available through ethernet	**Operating Temperature**	-20 °C to +50 °C (-4°F to 122°F)
IP protection	IP20	**Certifications**	cULus listed, ENEC, CE

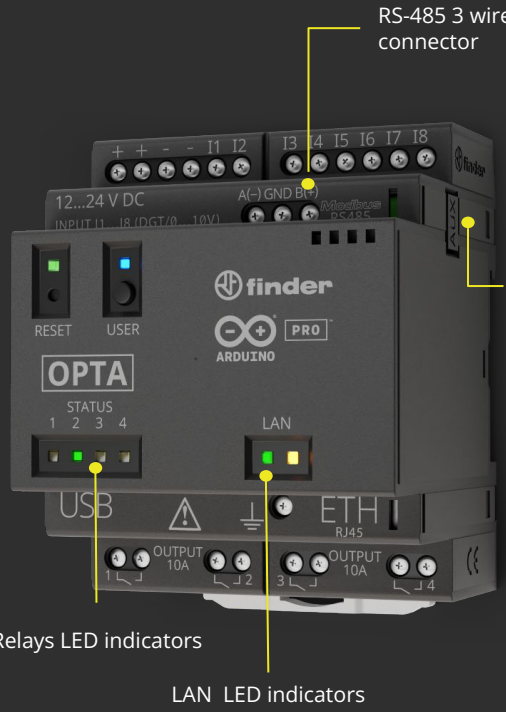
Technical Specs



Top View



Side Down view



Perspective View