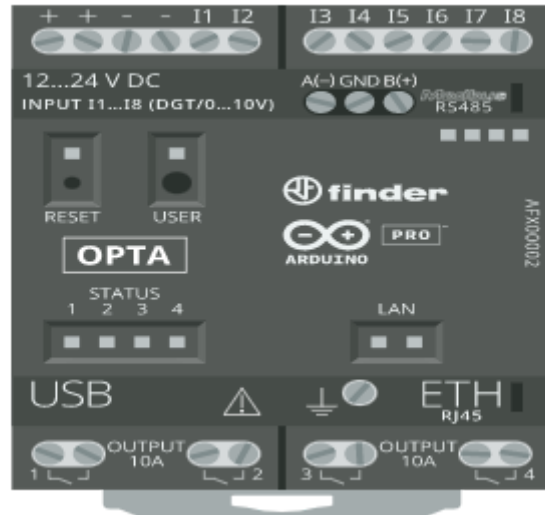# Opta | Arduino Documentation | Arduino Documentation

Opta

Thanks to its computing power, **Arduino Opta** enables a wide range of real-time control, monitoring and predictive maintenance applications.

It allows professionals to scale up automation projects while taking advantage of the open and widely known Arduino ecosystem.

Arduino Opta is available in three variants:

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

Connectivity

Industrial temperature range

The Arduino Opta has a highly reliable design operating at industrial temperature ranges (-20 °C to +50 °C) thanks to a dual-core architecture that doesn't require any external cooling.

Suitable to DIN Rail

Thanks to its form factor, it can be attached to a Din Rail mount system, providing a quick access to all the I/O 's.

This is the technical specifications for the Arduino Opta.

Board	SKUs	Arduino® Opta RS485	AFX00001
		Arduino® Opta WiFi	AFX00002
		Arduino® Opta Lite	AFX00003
Microcontroller	ID	STM32H747XI Dual ARM® Cortex®	
	Cortex-M7 core	up to 480 MHz	
	Cortex-M4 core	up to 240 MHz	
Input	Configurable digital / analog (0-10V) input	8	
Actuators	Relays (250 V AC - 10 A)	4	
Connectivity	USB Programming Port	Yes	
	Ethernet	TCP/IP	Yes
		ModBus TCP	Yes
	Bluetooth® Low Energy	Opta WiFi	
	Wi-Fi	Opta WiFi	
Communication protocols	RS485	Opta RS485 & Opta WiFi	
	Programmable Serial ports	RS485	
Power	Input voltage	12-24V DC	
	Output relay rated voltage	250V AC	

	Output relay maximum switching voltage	400V AC
Memory	**SDRAM**	1 MB
	Onboard flash memory	2MB internal + 16MB Flash QSPI
Dimensions	**Weight**	210g
	Width	69 mm
	Length	80 mm
	Height	90 mm
IP Protection	IP20	
RTC	~10days, NTP sync through ethernet	
Secure element	ATECC608B	
Programming	**Arduino programming language**	Via Arduino IDEs, Arduino CLI, Arduino Web Editor
	IEC-61131-3 as option	Ladder Diagram (LD), Function Block Diagram (FBD), Sequential Function Chart (SFC), Structured Text (ST), Instruction List (IL)