



Designation

Programmable controller

Application

- System integration
- Machine to Machine interface
- Cloud communication
- Data analysis
- Data visualization

General

Family name	ST-One
Part number	S1I301
Firmware version	Argon 1.4.1 (Linux 4.9.59-v7 armhf GNU/Linux)
IP rating	IP20

Power

Lower voltage limit (DC)	10 V
Upper voltage limit (DC)	30 V
Idle CPU current	180 mA at 10V 75 mA at 30 V
Max CPU current	450 mA at 10 V 160 mA at 30 V
Max inrush current	28 A at 30 V
Max power consumption	12.3 W (4.8 W CPU + 7.5 W USB peripherals)

Interfaces

Video	1 HDMI 1 Composite video
Network	2.4 GHz 802.11n Wireless Bluetooth 4.1 10/100 Ethernet
I/O	4 Inputs 4 Outputs
Busses	4 USBs 1 RS-232
Audio	1 analog stereo 3.5 mm jack



Motherboard

CPU	Quad Core ARM Cortex A-53 1.2GHz
RAM	1 GB SDRAM
GPU	400 MHz VideoCore IV
Storage	32GB (64GB or 128GB optional)

Clock

Real time clock	Yes
Backup time	20 year (typical)
Time synchronization	NTP

Digital outputs

Number of digital outputs	4
Output voltage	Same as power source
Max current	1 A (per output)
Peak current	4.5 A (per output)
Output modes	PWM Digital Trigger Servo
PWM frequencies	10 Hz 160 Hz 500 Hz 20 Hz 200 Hz 800 Hz 40 Hz 250 Hz 1 kHz 50 Hz 320 Hz 1.6 kHz 80 Hz 400 Hz 2 kHz 100 Hz
Servo max. pulse width	2500 μ s
Servo min. pulse width	500 μ s
Trigger pulse width	100 μ s

Digital inputs

Number of digital inputs	4
Surge protection	Yes
Max input voltage	30 V
Scan cycle	5 μ s
Debouncing	Up to 300 ms



Voltage for signal "0"	< 2 V
Voltage for signal "1"	> 4 V
Max current drain	3 mA

Dimensions

