



# Industrial Equipment based on Arduino, Raspberry Pi and ESP32

The Liberalization of the Industry  
with Open Source Technology.



Industrial Shields

# 10 IOS



- 10 IOS Digital Module with ESP32
  - 10 GPIOs
  - RS485 - Ethernet - WiFi

Original  
ESP32  
included



- 10 IOS Digital Module with Arduino
  - 10 GPIOs
  - RS485 - Ethernet

Original  
Arduino Nano  
included



- 10 IOS Relay Module with ESP32
  - 10 GPIOs
  - 10 Relay Output
  - RS485 - Ethernet - WiFi



- 10 IOS Relay Module with Arduino
  - 10 GPIOs
  - 10 Relay Output
  - RS485 - Ethernet

## ARDBOX

Also Available with:  
GPRS  
WiFi & Bluetooth LE

Original  
Arduino Leonardo  
included



- PLC Arduino Ardbox 20 I/Os Analog HF +

### 10 Inputs:

- (2x) Digital Optoisolated Inputs (5-24Vdc)
- (8x) 10 bit Analog Inputs (0-10V) | Digital (5-24Vdc) Inputs configurable by software
- (1x) Interrupt (5-24Vdc). "Can work like Digital (5-24Vdc)"

### 10 Outputs:

- (3x) Digital Optoisolated Outputs (5-24Vdc)
- (7x) Analog (0-10Vdc) and Digital / PWM Isolated (5-24Vdc)



- PLC Arduino Ardbox 20 I/Os RELAY HF +

### 10 Inputs:

- (2x) Digital Optoisolated Inputs (5-24Vdc)
- (8x) 10 bit Analog Inputs (0-10V) | Digital (5-24Vdc) Inputs configurable by software
- (1x) Interrupt (5-24Vdc). "Can work like Digital (5-24Vdc)"

### 8 Outputs:

- (8x) Relay (220Vac-5A)

## Industrial Protocols

RS485 · RS232 · SPI · I2C · Modbus RTU

EEPROM 1KB | SRAM 2.5 KB | Flash 32 KB | CPU Speed 16 MHz

# REFERENCE LIST - 10IOS

Reference	Description	Communications						Inputs / Outputs								
		Serial TTL (UART)	I2C	SPI	RS232	RS485 Half / Full	Ethernet	Wi-Fi & BLE	GPRS / GSM	Digital Inputs	Analog Inputs	Interrupt Inputs	Digital Outputs	Analog Outputs	Relay Outputs	In / Out 5Vdc
013001000100	10 I/O's Digital Module - CPU Arduino NANO	-	-	-	-	x1	x1	-	-	x10 GPIOs	-	-	-	-	-	-
013002000100	10 I/O's Digital Module - CPU ESP32	-	-	-	-	x1	x1	x1	-	x10 GPIOs	-	-	-	-	-	-
013001000200	10 I/O's Relay Module - CPU Arduino NANO	-	-	-	-	x1	x1	-	-	x10	-	-	-	x10	-	-
013002000200	10 I/O's Relay Module - CPU ESP32	-	-	-	-	x1	x1	x1	-	x10	-	-	-	x10	-	-

# REFERENCE LIST - ARDBOX

Reference	Description	Communications						Inputs / Outputs								
		Serial TTL (UART)	I2C	SPI	RS232	RS485 Half / Full	Ethernet	Wi-Fi & BLE	GPRS / GSM	Digital Inputs	Analog Inputs	Interrupt Inputs	Digital Outputs	Analog Outputs	Relay Outputs	In / Out 5Vdc
IS.AB20AN.HF+	PLC Arduino ARDBOX 20 I/Os Analog HF Modbus (RS485 configured by default)	-	x1 n.1	x1	x1 n.2	x1 n.3	-	-	x2	x8 n.4	x1 n.5	x3	x7 n.6	-	x2 n.7	
IS.AB20REL.HF+	PLC Arduino ARDBOX 20 I/Os Relay HF Modbus (RS485 configured by default)	-	x1 n.8	x1	x1 n.9	x1 n.10	-	-	x2	x8 n.4	x1 n.5	-	-	x8	x2 n.7	
006001001200	PLC Arduino ARDBOX 20 I/Os Analog HF Modbus & GPRS	-	x1 n.1	-	x1 n.2	x1 n.3	-	-	x1 n.14	x2	x8 n.4	x1 n.5	x3	x7 n.6	-	x1 n.15
006001001300	PLC Arduino ARDBOX 20 I/Os Relay HF Modbus & GPRS	-	x1 n.8	-	x1 n.9	x1 n.10	-	-	x1 n.14	x2	x8 n.4	x1 n.5	-	-	x8	x1 n.15
007001001200	PLC Arduino ARDBOX 20 I/Os Analog HF Modbus & WiFi & Bluetooth LE	-	x1 n.1	-	x1 n.2	x1 n.3	-	x1 n.17	-	x2	x8 n.4	x1 n.5	x3	x7 n.6	-	x2 n.7
007001001300	PLC Arduino ARDBOX 20 I/Os Relay HF Modbus & WiFi & Bluetooth LE	-	x1 n.8	-	x1 n.9	x1 n.10	-	x1 n.17	-	x2	x8 n.4	x1 n.5	-	-	x8	x2 n.7

n.1: 1 Input & 1 Digital Out are lost | n.2: 2 Inputs & 2 Relay are lost | n.3: 2 Inputs & 2 Digital Outputs & 2 Analog Outputs are lost | n.4: From the (Xx) Digital, (Yx) can be configured as Analog (Xx = Total Digital In, Yx = Number of Analog In) | n.5 : From the (Xx) Digital, (Zx) can be configured as Interrupt (Xx = Total Digital In, Zx = Number of Interrupt pins) | n.6: If using RS-232 or RS-485 (x2) Analog Output are lost | n.7 : If using pin 2 and pin 3, (x2) In are lost | n.8: 1 Inputs & 1 Relay are lost | n.9: 2 Inputs & 2 Relay are lost | n.10: 2 Inputs & 2 Relay are lost | n.11: USB Only meant for uploading or debugging, not always connected as serial in a project! | n.12: 2 Inputs are lost | n.13: If using Serial 1. GPRS/GSM not available | n.14: If using GPRS/GSM, Serial 1 is not available | n.15: Pin 2 is used as GPRS/GSM Module Reset, DON'T USE! | n.16: If using Serial 1, WiFi & BLE are not available | n.17: If using WiFi & BLE, Serial 1 is not available | n.18: Flat ribbon cable with 40-pin IDC connector is required to connect to Raspberry Pi Internal (Not included).



# ETHERNET

## M-DUINO PLUS

Plus SECURITY

Plus PROTECTION

Plus ESD improvement

Modbus RTU

Half-duplex

Full-duplex

Modbus TCP

RTC

MicroSD socket

RS485

RS232

SPI

TTL

I2C

Original Arduino Mega included

# M-DUINO

PLC Arduino 19R I/Os  
Relay / Analog / Digital PLUS



**6 Inputs:**

- (2x) Digital Optoisolated (5-24Vdc)
- (4x) Analog (0-10Vdc, 10bit) / Digital (5-24Vdc) configurables by software
- (2x) Interrupt (5-24Vdc). "Are part of the Digital inputs (5-24Vdc)"

**11 Outputs:**

- (3x) Analog (0-10Vdc, 8 bit) / Digital (5-24Vdc) / PWM Isolated (5-24Vdc)
- (8x) Relay (220Vac-5A)

PLC Arduino 21 I/Os  
Analog / Digital PLUS



**13 Inputs:**

- (7x) Digital Optoisolated (5-24Vdc).
- (6x) Analog (0-10Vdc, 10bit) / Digital (5-24Vdc) configurables by software
- (2x) Interrupt (5-24Vdc). "Are part of the Digital inputs (5-24Vdc)".

**8 Outputs:**

- (5x) Digital Optoisolated(5-24Vdc)
- (3x) Analog (0-10Vdc, 8 bit) / Digital (5-24Vdc) / PWM Isolated (5-24Vdc)



Ethernet

TCP / IP

Modbus RTU

Modbus TCP

## Industrial Standard Communications

PLC Arduino 38AR I/Os  
Relay / Analog / Digital PLUS



**19 Inputs:**

- (9x) Digital Optoisolated (5-24Vdc)
- (10x) Analog (0-10Vdc, 10bit) / Digital (5-24Vdc) configurables by software
- (4x) Interrupt (5-24Vdc). "Are part of the Digital inputs (5-24Vdc)"

**19 Outputs:**

- (5x) Digital Optoisolated (5-24Vdc)
- (6x) Analog (0-10Vdc, 8 bit) / Digital (5-24Vdc) / PWM Isolated (5-24Vdc)
- (8x) Relay (220Vac-5A)

PLC Arduino 38R I/Os  
Analog / Digital /Relay PLUS



**12 Inputs:**

- (4x) Digital Optoisolated (5-24Vdc)
- (8x) Analog (0-10Vdc, 10bit) / Digital (5-24Vdc) configurables by software
- (4x) Interrupt (5-24Vdc). "Are part of the Digital inputs (5-24Vdc)"

**22 Outputs:**

- (6x) Analog (0-10Vdc, 8 bit) / Digital (5-24Vdc) / PWM Isolated (5-24Vdc)
- (16x) Relay (220Vac - 5A)

PLC Arduino 42 I/Os  
Analog / Digital PLUS



**26 Inputs:**

- (14x) Digital Optoisolated (5-24Vdc)
- (12x) Analog (0-10Vdc, 10bit) / Digital (5-24Vdc) configurables by software.
- (4x) Interrupt (5-24Vdc). "Are part of the Digital inputs (5-24Vdc)"

**16 Outputs:**

- (10x) Digital Optoisolated (5-24Vdc)
- (6x) Analog (0-10Vdc, 8 bit) / Digital (5-24Vdc) / PWM Isolated (5-24Vdc)

# ETHERNET

PLC Arduino 50RRA I/Os  
Relay / Analog / Digital PLUS



## 22 Inputs:

- (10x) Digital Optoisolated (5-24Vdc)
- (12x) Analog (0-10Vdc, 10bit) / Digital (5-24Vdc) configurables by software
- (6x) Interrupt (5-24Vdc). "Are part of the Digital inputs (5-24Vdc)"

## 28 Outputs:

- (4x) Digital Optoisolated (5-24Vdc)
- (8x) Analog (0-10Vdc, 8 bit) / Digital (5-24Vdc) / PWM Isolated (5-24Vdc)
- (16x) Relay (220Vac-5A)

PLC Arduino 53ARRI I/Os  
Relay / Analog / Digital PLUS



## 25 Inputs:

- (11x) Digital Optoisolated (5-24Vdc)
- (14x) Analog (0-10Vdc, 10bit) / Digital (5-24Vdc) configurables by software
- (6x) Interrupt (5-24Vdc). "Are part of the Digital inputs (5-24Vdc)"

## 28 Outputs:

- (5x) Digital Optoisolated (5-24Vdc)
- (8x) Analog (0-10Vdc, 8 bit) / Digital (5-24Vdc) / PWM Isolated (5-24Vdc)
- (15x) Relay (220Vac-5A)

# M-DUINO

PLC Arduino 54ARA I/Os  
Relay / Analog / Digital PLUS



## 29 Inputs:

- (15x) Digital Optoisolated (5-24Vdc)
- (14x) Analog (0-10Vdc, 10 bit) / Digital (5-24Vdc), configurable by software
- (6x) Interrupt (5-24Vdc). "Are part of the Digital inputs (5-24Vdc)"

## 25 Outputs:

- (9x) Digital Optoisolated (5-24Vdc)
- (8x) Analog (0-10Vdc, 8 bit)/Digital (5-24Vdc) / PWM Isolated (5-24Vdc)
- (8x) Relay (220Vac-5A)

## Industrial Standard Communications

RS485 - RS232 - SPI - TTL - I2C  
Ethernet - TCP / IP - Modbus RTU / TCP

Original  
**Arduino Mega**  
included

EEPROM 4 KB | SRAM 8 KB  
Flash 256 KB | CPU Speed 16 MHz



PLC Arduino 57R I/Os  
Relay / Analog / Digital PLUS



## 18 Inputs:

- (6x) Digital Optoisolated (5-24Vdc)
- (12x) Analog (0-10Vdc, 10 bit) / Digital (5-24Vdc) configurable by software
- (6x) Interrupt (5-24Vdc) "Are part of the Digital inputs (5-24Vdc)".

## 31 Outputs:

- (8x) Analog (0-10Vdc, 8 bit) / Digital (5-24Vdc) / PWM Isolated (5-24Vdc)
- (23x) Relay (220Vac - 5A)

PLC Arduino 57ARRI I/Os  
Analog / Digital PLUS



## 32 Inputs:

- (16x) Digital Optoisolated (5-24Vdc)
- (16x) Analog (0-10Vdc, 10bit) / Digital (5-24Vdc) configurable by software
- (6x) Interrupt (5-24Vdc). "Are part of the Digital inputs (5-24Vdc)"

## 25 Outputs:

- (10x) Digital Optoisolated (5-24Vdc)
- (8x) Analog (0-10Vdc, 8 bit) / Digital (5-24Vdc) / PWM Isolated (5-24Vdc)
- (7x) Relay (220Vac - 5A)

PLC Arduino 58 I/Os  
Analog / Digital PLUS



## 36 Inputs:

- (20x) Digital Optoisolated (5-24Vdc)
- (16x) Analog (0-10Vdc) / Digital (5-24Vdc) configurable by software
- (6x) Interrupt (5-24Vdc). "Are part of the Digital inputs (5-24Vdc)"

## 22 Outputs:

- (14x) Digital Optoisolated (5-24Vdc)
- (8x) Analog (0-10Vdc, 8 bit) / Digital (5-24Vdc) / PWM Isolated (5-24Vdc)

# REFERENCE LIST - ETHERNET PLC

Reference	Description	Communications							Inputs / Outputs							
		Serial TTL (UART)	I2C	SPI	RS232	RS485 Half / Full	Ethernet	Wi-Fi & BLE	GPRS / GSM	Digital Inputs	Analog Inputs	Interrupt Inputs	Digital Outputs	Analog Outputs	Relay Outputs	In / Out 5Vdc
IS.MDuino.21+	M-DUINO PLC Arduino Ethernet 21 I/Os Analog Digital PLUS	x2 n.11	x1 n.12	x1	x1	x1	x1	-	-	x7	x6 n.4	x2 n.5	x5	x3	-	x2 n.7
IS.MDuino.42+	M-DUINO PLC Arduino Ethernet 42 I/Os Analog Digital PLUS	x2 n.11	x1 n.12	x1	x1	x1	x1	-	-	x14	x12 n.4	x4 n.5	x10	x6	-	x2 n.7
IS.MDuino.58+	M-DUINO PLC Arduino Ethernet 58 I/Os Analog Digital PLUS	x2 n.11	x1 n.12	x1	x1	x1	x1	-	-	x20	x16 n.4	x6 n.5	x14	x8	-	x2 n.7
IS.MDuino.19R+	M-DUINO PLC Arduino Ethernet 19R I/Os Analog Digital PLUS	x2 n.11	x1 n.12	x1	x1	x1	x1	-	-	x2	x4 n.4	x2 n.5	x0	x3	x8	x2 n.7
IS.MDuino.38R+	M-DUINO PLC Arduino Ethernet 38R I/Os Analog Digital PLUS	x2 n.11	x1 n.12	x1	x1	x1	x1	-	-	x4	x8 n.4	x4 n.5	x0	x6	x16	x2 n.7
IS.MDuino.57R+	M-DUINO PLC Arduino Ethernet 57R I/Os Analog Digital PLUS	x2 n.11	x1 n.12	x1	x1	x1	x1	-	-	x6	x12 n.4	x6 n.5	x0	x8	x23	x2 n.7
IS.MDuino.38AR+	M-DUINO PLC Arduino Ethernet 38AR+ I/Os Analog Digital PLUS	x2 n.11	x1 n.12	x1	x1	x1	x1	-	-	x9	x10 n.4	x4 n.5	x5	x6	x8	x2 n.7
IS.MDuino.53ARR+	M-DUINO PLC Arduino Ethernet 53ARR+ I/Os Analog Digital PLUS	x2 n.11	x1 n.12	x1	x1	x1	x1	-	-	x11	x14 n.4	x6 n.5	x5	x8	x15	x2 n.7
IS.MDuino.57AAR+	M-DUINO PLC Arduino Ethernet 57AAR+ I/Os Analog Digital PLUS	x2 n.11	x1 n.12	x1	x1	x1	x1	-	-	x16	x16 n.4	x6 n.5	x10	x8	x7	x2 n.7
IS.MDuino.54ARA+	M-DUINO PLC Arduino Ethernet 54ARA+ I/Os Analog Digital PLUS	x2 n.11	x1 n.12	x1	x1	x1	x1	-	-	x15	x14 n.4	x6 n.5	x9	x8	x8	x2 n.7
IS.MDuino.50RRA+	M-DUINO PLC Arduino Ethernet 50RRA+ I/Os Analog Digital PLUS	x2 n.11	x1 n.12	x1	x1	x1	x1	-	-	x10	x12 n.4	x6 n.5	x4	x8	x16	x2 n.7

n.4: From the (Xx) Digital, (Yx) can be configured as Analog (Xx = Total Digital In, Yx = Number of Analog In) | n.5 : From the (Xx) Digital, (Zx) can be configured as Interrupt (Xx = Total Digital In, Zx = Number of Interrupt pins) | n.7 : If using pin 2 and pin 3, (x2) In are lost | n.11: USB Only meant for uploading or debugging, not always connected as serial in a project! | n.12: 2 Inputs are lost.



# ARDBOX

# GPRS

# M-DUINO

## GPRS ARDBOX PLC Range



Original Arduino Leonardo included

Equipment based on the Arduino technology designed for a professional use. It also contains several communication ports which provide more flexibility and control.

The GPRS/GSM family offers the possibility to expand up to 127 modules through I2C, which means that you can have until 7100 Inputs / Outputs in Master-Slave connections, additionally to sensors, etc...

## GPRS MDUINO PLC Range



Original Arduino Mega included

EEPROM 4 KB | SRAM 8 KB  
Flash 256 KB | CPU Speed 16 MHz

## Industrial Standard Communications

RS485 - RS232 - SPI - TTL - I2C  
Ethernet - TCP / IP - Modbus RTU / TCP

# ARDBOX

# WIFI

# M-DUINO

## WiFi ARDBOX PLC Range



Original Arduino Leonardo included

The WiFi and Bluetooth integrated module consists in a single 2.4 GHz Wi-Fi and Bluetooth combo chip designed with the TSMC ultra-low-power 40 nm technology.

It is designed to achieve the best power and RF performance, showing robustness, versatility and reliability in a wide variety of applications and power scenarios.

## WiFi MDUINO PLC Range



Original Arduino Mega included

Some applications are:

- Generic Low-power IoT Sensor Hub
- Generic Low-power IoT Data Loggers
- Mesh Network.

It is designed for Internet-of-Things (IoT) applications.

For all those projects that require wireless, our range of Wi-Fi PLC (programmable logic controllers) is a great solution.

It is an ideal automation solution for remote monitoring, diagnostics and control.

Those PLC can directly work with humidity sensors, water level sensors, pressure transducers, flow sensors, etc.

It can be used as an access point to create the wireless network infrastructure, such as bridge to connect computers in the network.

# REFERENCE LIST - GPRS PLC

Reference	Description	Communications							Inputs / Outputs							
		Serial TTL (UART)	I2C	SPI	RS232	RS485 Half / Full	Ethernet	WiFi & BLE	GPRS / GSM	Digital Inputs	Analog Inputs	Interrupt Inputs	Digital Outputs	Analog Outputs	Relay Outputs	In / Out 5Vdc
006001000200	M-DUINO PLC Arduino Ethernet GPRS 21 I/Os Analog Digital PLUS	x1 n.13	x1 n.12	x1	x1	x1	x1	-	x1 n.14	x6	x6 n.4	x1 n.5	x5	x3	-	x1 n.7
006001000400	M-DUINO PLC Arduino Ethernet GPRS 42 I/Os Analog Digital PLUS	x1 n.13	x1 n.12	x1	x1	x1	x1	-	x1 n.14	x11	x12 n.4	x3 n.5	x10	x6	-	x1 n.7
006001000600	M-DUINO PLC Arduino Ethernet GPRS 58 I/Os Analog Digital PLUS	x1 n.13	x1 n.12	x1	x1	x1	x1	-	x1 n.14	x17	x16 n.4	x5 n.5	x14	x8	-	x1 n.7
006001000100	M-DUINO PLC Arduino Ethernet GPRS 19R I/Os Analog Digital PLUS	x1 n.13	x1 n.12	x1	x1	x1	x1	-	x1 n.14	x1	x4 n.4	x1 n.5	x0	x3	x8	x1 n.7
006001000300	M-DUINO PLC Arduino Ethernet GPRS 38R I/Os Analog Digital PLUS	x1 n.13	x1 n.12	x1	x1	x1	x1	-	x1 n.14	x1	x8 n.4	x3 n.5	x0	x6	x16	x1 n.7
006001000500	M-DUINO PLC Arduino Ethernet GPRS 57R I/Os Analog Digital PLUS	x1 n.13	x1 n.12	x1	x1	x1	x1	-	x1 n.14	x3	x12 n.4	x5 n.5	x0	x8	x23	x1 n.7
006001000700	M-DUINO PLC Arduino Ethernet GPRS 38AR+ I/Os Analog Digital PLUS	x1 n.13	x1 n.12	x1	x1	x1	x1	-	x1 n.14	x6	x10 n.4	x3 n.5	x5	x6	x8	x1 n.7
006001000800	M-DUINO PLC Arduino Ethernet GPRS 57AAR+ I/Os Analog Digital PLUS	x1 n.13	x1 n.12	x1	x1	x1	x1	-	x1 n.14	x13	x16 n.4	x5 n.5	x10	x8	x7	x1 n.7
006001000900	M-DUINO PLC Arduino Ethernet GPRS 50RRA+ I/Os Analog Digital PLUS	x1 n.13	x1 n.12	x1	x1	x1	x1	-	x1 n.14	x7	x12 n.4	x3 n.5	x4	x8	x16	x1 n.7
006001001000	M-DUINO PLC Arduino Ethernet GPRS 53ARR+ I/Os Analog Digital PLUS	x1 n.13	x2 n.12	x1	x1	x1	x1	-	x1 n.14	x8	x14 n.4	x5 n.5	x5	x8	x15	x1 n.7
006001001100	M-DUINO PLC Arduino Ethernet GPRS 54ARA+ I/Os Analog Digital PLUS	x1 n.13	x2 n.12	x1	x1	x1	x1	-	x1 n.14	x12	x14 n.4	x5 n.5	x9	x8	x8	x1 n.7
006001001200	PLC Arduino ARDBOX 20 I/Os ANALOG HF Modbus GPRS	-	x1 n.1	-	x1 n.2	x1 n.3	-	-	x1 n.14	x2	x8 n.4	x1 n.5	x3	x7 n.6	-	x1 n.15
006001001300	PLC Arduino ARDBOX 20 I/Os RELAY HF Modbus GPRS	-	x1 n.8	-	x1 n.9	x1 n.10	-	-	x1 n.14	x2	x8 n.4	x1 n.5	-	-	x8	x1 n.15

n.1: 1 Input & 1 Digital Out are lost | n.2: 2 Inputs & 2 Relay are lost | n.3: 2 Inputs & 2 Digital Outputs & 2 Analog Outputs are lost | n.4: From the (Xx) Digital, (Yx) can be configured as Analog (Xx = Total Digital In, Yx = Number of Analog In) | n.5 : From the (Xx) Digital, (Zx) can be configured as Interrupt (Xx = Total Digital In, Zx = Number of Interrupt pins). They are counted as Digital Inputs. | n.6: If using RS-232 or RS-485 (x2) Analog Output are lost | n.7 : If using pin 2 and pin 3, (x2) In are lost | n.8: 1 Inputs & 1 Relay are lost | n.9: 2 Inputs & 2 Relay are lost | n.10: 2 Inputs & 2 Relay are lost | n.11: USB Only meant for uploading or debugging, not always connected as serial in a project! | n.12: 2 Inputs are lost | n.13: If using Serial 1. GPRS/GSM not available | n.14: If using GPRS/GSM, Serial 1 is not available | n.15: Pin 2 is used as GPRS/GSM Module Reset, DON'T USE!



# REFERENCE LIST - WIFI PLC

Reference	Description	Communications							Inputs / Outputs							
		Serial TTL (UART)	I2C	SPI	RS232	RS485 Half / Full	Ethernet	WiFi & BLE	GPRS / GSM	Digital Inputs	Analog Inputs	Interrupt Inputs	Digital Outputs	Analog Outputs	Relay Outputs	In / Out 5Vdc
007001000200	M-DUINO PLC Arduino Ethernet & WiFi & Bluetooth LE 21 I/Os Analog Digital PLUS	x1 n.13	x1 n.12	x1	x1	x1	x1	x1 n.14	-	x7	x6 n.4	x2 n.5	x5	x3	-	x2 n.7
007001000400	M-DUINO PLC Arduino Ethernet & WiFi & Bluetooth LE 42 I/Os Analog Digital PLUS	x1 n.13	x1 n.12	x1	x1	x1	x1	x1 n.14	-	x14	x12 n.4	x4 n.5	x10	x6	-	x2 n.7
007001000600	M-DUINO PLC Arduino Ethernet & WiFi & Bluetooth LE 58 I/Os Analog Digital PLUS	x1 n.13	x1 n.12	x1	x1	x1	x1	x1 n.14	-	x20	x16 n.4	x6 n.5	x14	x8	-	x2 n.7
007001000100	M-DUINO PLC Arduino Ethernet & WiFi & Bluetooth LE 19R I/Os Analog Digital PLUS	x1 n.13	x1 n.12	x1	x1	x1	x1	x1 n.14	-	x2	x4 n.4	x2 n.5	x0	x3	x8	x2 n.7
007001000300	M-DUINO PLC Arduino Ethernet & WiFi & Bluetooth LE 38R I/Os Analog Digital PLUS	x1 n.13	x1 n.12	x1	x1	x1	x1	x1 n.14	-	x4	x8 n.4	x4 n.5	x0	x6	x16	x2 n.7
007001000500	M-DUINO PLC Arduino Ethernet & WiFi & Bluetooth LE 57R I/Os Analog Digital PLUS	x1 n.13	x1 n.12	x1	x1	x1	x1	x1 n.14	-	x6	x12 n.4	x6 n.5	x0	x8	x23	x2 n.7
007001000700	M-DUINO PLC Arduino Ethernet & WiFi & Bluetooth LE 38AR+ I/Os Analog Digital PLUS	x1 n.13	x2 n.12	x1	x1	x1	x1	x1 n.14	-	x9	x10 n.4	x4 n.5	x5	x6	x8	x2 n.7
007001000800	M-DUINO PLC Arduino Ethernet & WiFi & Bluetooth LE 57AARR+ I/Os Analog Digital PLUS	x1 n.13	x2 n.12	x1	x1	x1	x1	x1 n.14	-	x16	x16 n.4	x6 n.5	x10	x8	x7	x2 n.7
007001000900	M-DUINO PLC Arduino Ethernet & WiFi & Bluetooth LE 50RRRA+ I/Os Analog Digital PLUS	x1 n.13	x2 n.12	x1	x1	x1	x1	x1 n.14	-	x10	x12 n.4	x6 n.5	x4	x8	x16	x2 n.7
007001001000	M-DUINO PLC Arduino Ethernet & WiFi & Bluetooth LE 53ARR+ I/Os Analog Digital PLUS	x1 n.13	x2 n.12	x1	x1	x1	x1	x1 n.14	-	x11	x14 n.4	x6 n.5	x5	x8	x15	x2 n.7
007001001100	M-DUINO PLC Arduino Ethernet & WiFi & Bluetooth LE 54ARA+ I/Os Analog Digital PLUS	x1 n.13	x2 n.12	x1	x1	x1	x1	x1 n.14	-	x15	x14 n.4	x6 n.5	x9	x8	x8	x2 n.7
007001001200	PLC Arduino ARDBOX 20 I/Os ANALOG HF Modbus & WiFi & Bluetooth LE	-	x1 n.1	-	x1 n.2	x1 n.3	-	x1 n.14	-	x2	x8 n.4	x1 n.5	x3	x7 n.16	-	x2 n.7
007001001300	PLC Arduino ARDBOX 20 I/Os RELAY HF Modbus & WiFi & Bluetooth LE	-	x1 n.8	-	x1 n.9	x1 n.10	-	x1 n.14	-	x2	x8 n.4	x1 n.5	-	-	x8	x2 n.7

n.1: 1 Input & 1 Digital Out are lost | n.2: 2 Inputs & 2 Relay are lost | n.3: 2 Inputs & 2 Digital Outputs & 2 Analog Outputs are lost | n.4: Can be used as Analog/Digital | n.5: From the (Xx) Digital, (Zx) can be configured as Interrupt (Xx = Total Digital In, Zx = Number of Interrupt pins) | n.6: If using RS-232 or RS-485 (x2) Analog Output are lost | n.7: If using pin 2 and pin 3, (x2) In are lost | n.8: 1 Inputs & 1 Relay are lost | n.9: 2 Inputs & 2 Relay are lost | n.10: 2 Inputs & 2 Relay are lost | n.11: USB Only meant for uploading or debugging, not always connected as serial in a project! | n.12: 2 Inputs are lost | n.13: If using Serial 1. GPRS/GSM not available | n.14: If using GPRS/GSM, Serial 1 is not available | n.15: Pin 2 is used as GPRS/GSM Module Reset, DON'T USE! | n.16: Analog Outputs belong to Digital Outputs





# LORA

■ ARDBOX PLC Range



Original Arduino Leonardo included

The Ardbox Arduino PLC Range and the M-Duino range, both with LoRa technology, will allow you to work with this wireless communication system, the versatility of the Arduino board and this all-in-one solution in an industrial PLC with up to 58 Inputs and Outputs.

■ MDUINO PLC Range



Original Arduino Mega included

Same inputs and outputs, communication protocols, but with dedicated features for specialized markets, requirements or solutions.



Digital Addressable Lighting Interface

# DALI

■ ARDBOX PLC Range



Original Arduino Leonardo included

Dali is used in building automation to control individual lights and lighting groups.

Integrating this feature in the Arduino PLC allows you to control huge range of lighting areas and at the same time it is an easily growing system.

It maximizes flexibility by adjusting lighting control to have the optimal conditions for rational consumption.

■ MDUINO PLC Range



Original Arduino Mega included

Same inputs and outputs, communication protocols, but with dedicated features for specialized markets, requirements or solutions.

# REFERENCE LIST - LORA PLC (EU & USA)

Reference	Description	Communications							Inputs / Outputs							
		Serial TTL (UART)	I2C	SPI	RS232	RS485 Half / Full	Ethernet	LoRa	GPRS / GSM	Digital Inputs	Analog Inputs	Interrupt Inputs	Digital Outputs	Analog Outputs	Relay Outputs	In / Out 5Vdc
015001000200	M-DUINO PLC ARDUINO ETHERNET & LoRa (868 - 915MHz) 21 I/Os ANALOG/DIGITAL PLUS	x2 n.13	x1 n.12	x1	x1	x1	x1	x1 n.14	-	x6	x6 n.4	x1 n.5	x5	x3	-	x1 n.7
015001000400	M-DUINO PLC ARDUINO ETHERNET& LoRa (868 - 915MHz) 42 I/Os ANALOG/DIGITAL PLUS	x2 n.13	x1 n.12	x1	x1	x1	x1	x1 n.14	-	x13	x12 n.4	x3 n.5	x10	x6	-	x1 n.7
015001000600	M-DUINO PLC ARDUINO ETHERNET & LoRa (868 - 915MHz) 58 I/Os ANALOG/DIGITAL PLUS	x2 n.13	x1 n.12	x1	x1	x1	x1	x1 n.14	-	x19	x16 n.4	x5 n.5	x14	x6	-	x1 n.7
015001000100	M-DUINO PLC ARDUINO ETHERNET & LoRa (868 - 915MHz) 19R I/Os RELAY/ANALOG/DIGITAL PLUS	x2 n.13	x1 n.12	x1	x1	x1	x1	x1 n.14	-	x1	x4 n.4	x1 n.5	x0	x3	x8	x1 n.7
015001000300	M-DUINO PLC ARDUINO ETHERNET & LoRa (868 - 915MHz) 38R I/Os RELAY/ANALOG/DIGITAL PLUS	x2 n.13	x1 n.12	x1	x1	x1	x1	x1 n.14	-	x3	x8 n.4	x3 n.5	x0	x6	x16	x1 n.7
015001000500	M-DUINO PLC ARDUINO ETHERNET & LoRa (868 - 915MHz) 57R I/Os RELAY/ANALOG/DIGITAL PLUS	x2 n.13	x1 n.12	x1	x1	x1	x1	x1 n.14	-	x5	x12 n.4	x5 n.5	x0	x6	x23	x1 n.7
015001000700	M-DUINO PLC ARDUINO ETHERNET & LoRa (868 - 915MHz) 38AARI/Os ANALOG/DIGITAL/RELAY PLUS	x2 n.13	x1 n.12	x1	x1	x1	x1	x1 n.14	-	x8	x10 n.4	x3 n.5	x5	x6	x8	x1 n.7
015001000800	M-DUINO PLC ARDUINO ETHERNET & LoRa (868 - 915MHz) 57AARR I/Os ANALOG/DIGITAL/RELAY PLUS	x2 n.13	x1 n.12	x1	x1	x1	x1	x1 n.14	-	x15	x16 n.4	x5 n.5	x10	x6	x7	x1 n.7
015001000900	M-DUINO PLC ARDUINO ETHERNET & LoRa (868 - 915MHz) 50ARR I/Os ANALOG/DIGITAL/RELAY PLUS	x2 n.13	x1 n.12	x1	x1	x1	x1	x1 n.14	-	x9	x12 n.4	x5 n.5	x4	x6	x16	x1 n.7
015001001000	M-DUINO PLC ARDUINO ETHERNET & LoRa (868 - 915MHz) 53ARR I/Os ANALOG/DIGITAL/RELAY PLUS	x2 n.13	x1 n.12	x1	x1	x1	x1	x1 n.14	-	x10	x14 n.4	x5 n.5	x5	x6	x15	x1 n.7
015001001100	M-DUINO PLC ARDUINO ETHERNET & LoRa (868 - 915MHz) 54ARRA I/Os ANALOG/DIGITAL/RELAY PLUS	x2 n.13	x1 n.12	x1	x1	x1	x1	x1 n.14	-	x14	x14 n.4	x5 n.5	x9	x8	x8	x1 n.7
015001001200	PLC ARDUINO ARDBOX 20 I/Os ANALOG HF MODBUS & LoRa (868 - 915MHz)	-	x1 n.1	-	x1 n.2	x1 n.3	-	x1 n.14	-	x1	x7 n.4	-	x3	x6 n.6	-	-
015001001300	PLC ARDUINO ARDBOX 20 I/Os RELAY HF MODBUS & LoRa (868 - 915MHz)	-	x1 n.8	-	x1 n.9	x1 n.10	-	x1 n.14	-	x1	x7 n.4	-	-	-	x7	-

n.1: 1 Input & 1 Digital Out are lost | n.2: 2 Inputs & 2 Relay are lost | n.3: 2 Inputs & 2 Digital Outputs & 2 Analog Outputs are lost | n.4: From the (Xx) Digital, (Yx) can be configured as Analog (Xx = Total Digital In, Yx = Number of Analog In) | n.5 : From the (Xx) Digital, (Zx) can be configured as Interrupt (Xx = Total Digital In, Zx = Number of Interrupt pins) | n.6: If using RS-232 or RS-485 (x2) Analog Output are lost | n.7 : If using pin 2 and pin 3, (x2) In are lost | n.8: 1 Inputs & 1 Relay are lost | n.9: 2 Inputs & 2 Relay are lost | n.10: 2 Inputs & 2 Relay are lost | n.11: USB Only meant for uploading or debugging, not always connected as serial in a project! | n.12: 2 Inputs are lost | n.13: If using Serial 1. LoRa not available | n.14: If using LoRa, Serial 1 is not available | n.15: Pin 2 is used as GPRS/GSM Module Reset, DON'T USE!



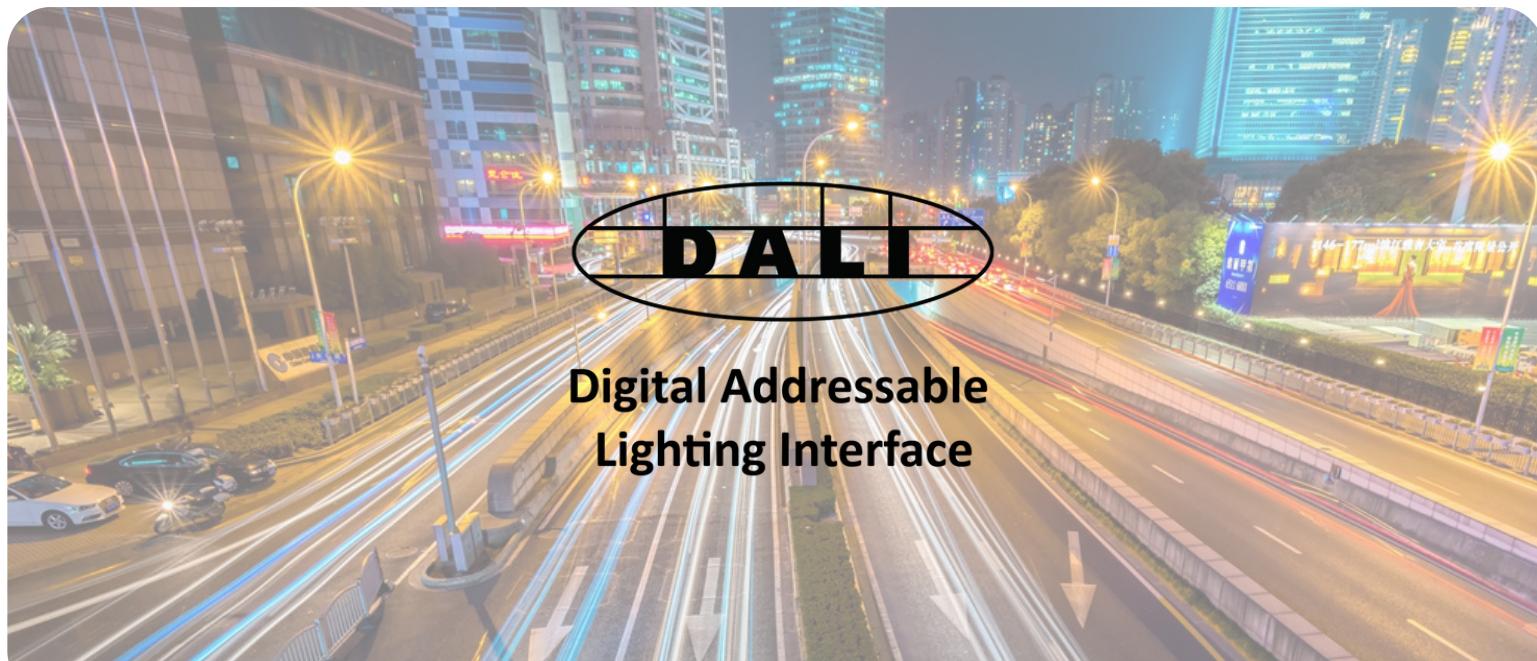
# REFERENCE LIST - DALI EHTERNET PLC

Reference	Description	Communications								Inputs / Outputs							
		Serial TTL (UART)	I2C	SPI	RS232	RS485 Half / Full	Ethernet	WiFi & BLE	GPRS / GSM	Digital Inputs	Analog Inputs	Interrupt Inputs	Digital Outputs	Analog Outputs	Relay Outputs	In / Out 5Vdc	
004001000200	M-DUINO PLC Arduino Ethernet & DALI 21 I/Os Analog/Digital PLUS	x1 n.13	x1 n.12	x1	x1	x1	x1	x1 n.14	-	x7	x6 n.4	x2 n.5	x5	x3	-	x2 n.7	
004001000400	M-DUINO PLC Arduino Ethernet & DALI 42 I/Os Analog/Digital PLUS	x1 n.13	x1 n.12	x1	x1	x1	x1	x1 n.14	-	x12	x12 n.4	x2 n.5	x10	x6	-	x2 n.7	
004001000600	M-DUINO PLC Arduino Ethernet & DALI 58 I/Os Analog/Digital PLUS	x1 n.13	x1 n.12	x1	x1	x1	x1	x1 n.14	-	x18	x16 n.4	x4 n.5	x14	x8	-	x2 n.7	
004001000100	M-DUINO PLC Arduino Ethernet & DALI 19R I/Os Analog/Digital PLUS	x1 n.13	x1 n.12	x1	x1	x1	x1	x1 n.14	-	x2	x4 n.4	x2 n.5	x0	x3	x8	x2 n.7	
004001000300	M-DUINO PLC Arduino Ethernet & DALI 38R I/Os Analog/Digital PLUS	x1 n.13	x1 n.12	x1	x1	x1	x1	x1 n.14	-	x4	x8 n.4	x4 n.5	x0	x6	x16	x2 n.7	
004001000500	M-DUINO PLC Arduino Ethernet & DALI 57R I/Os Analog/Digital PLUS	x1 n.13	x1 n.12	x1	x1	x1	x1	x1 n.14	-	x6	x12 n.4	x6 n.5	x0	x8	x23	x2 n.7	
004001000700	M-DUINO PLC Arduino Ethernet & DALI 38AR I/Os Analog/Digital PLUS	x1 n.13	x1 n.12	x1	x1	x1	x1	x1 n.14	-	x9	x10 n.4	x4 n.5	x5	x6	x8	x2 n.7	
004001000800	M-DUINO PLC Arduino Ethernet & DALI 57AAR I/Os Analog/Digital PLUS	x1 n.13	x1 n.12	x1	x1	x1	x1	x1 n.14	-	x14	x16 n.4	x4 n.5	x10	x8	x7	x2 n.7	
004001000900	M-DUINO PLC Arduino Ethernet & DALI 50RRA I/Os Analog/Digital PLUS	x1 n.13	x1 n.12	x1	x1	x1	x1	x1 n.14	-	x10	x12 n.4	x6 n.5	x4	x8	x16	x2 n.7	
004001001000	M-DUINO PLC Arduino Ethernet & DALI 53ARR I/Os Analog/Digital PLUS	x1 n.13	x1 n.12	x1	x1	x1	x1	x1 n.14	-	x11	x14 n.4	x6 n.5	x5	x8	x15	x2 n.7	
004001001100	M-DUINO PLC Arduino Ethernet & DALI 54ARA I/Os Analog/Digital PLUS	x1 n.13	x1 n.12	x1	x1	x1	x1	x1 n.14	-	x15	x14 n.4	x6 n.5	x9	x8	x8	x2 n.7	
004001001200	PLC Arduino Ardbox & DALI 20 I/Os Analog HF Modbus (RS485 configured by default)	-	x1 n.1	-	x1 n.2	x1 n.3	-	x1 n.14	-	x2	x8 n.4	-	x3	x7 n.6	-	x2 n.7	
004001001300	PLC Arduino Ardbox & DALI 20 I/Os Relay HF Modbus (RS485 configured by default)	-	x1 n.8	-	x1 n.9	x1 n.10	-	x1 n.14	-	x2	x8 n.4	-	-	-	x8	x2 n.7	

n.1: 1 Input & 1 Digital Out are lost | n.2: 2 Inputs & 2 Relay are lost | n.3: 2 Inputs & 2 Digital Outputs & 2 Analog Outputs are lost | n.4: From the (Xx) Digital, (Yx) can be configured as Analog (Xx = Total Digital In, Yx = Number of Analog In) | n.5 : From the (Xx) Digital, (Zx) can be configured as Interrupt (Xx = Total Digital In, Zx = Number of Interrupt pins) | n.6: If using RS-232 or RS-485 (x2) Analog Output are lost | n.7 : If using pin 2 and pin 3, (x2) In are lost | n.8: 1 Inputs & 1 Relay are lost | n.9: 2 Inputs & 2 Relay are lost | n.10: 2 Inputs & 2 Relay are lost | n.11: USB Only meant for uploading or debugging, not always connected as serial in a project! | n.12: 2 Inputs are lost | n.13: If using Serial 1. WiFi not available | n.14: If using WiFi, Serial 1 is not available | n.15: Pin 2 is used as GPRS/GSM Module Reset, DON'T USE!



**Digital Addressable  
Lighting Interface**



# 10 IOS MODULE

Original  
ESP32  
included



10 IOS Digital Module with ESP32  
 • 10 GPIOs  
 • I2C - RS485 - Ethernet - WiFi



10 IOS Relay Module with ESP32  
 • 10 GPIOs  
 • 10 Relay Outputs  
 • I2C - RS485 - Ethernet - WiFi

Industrial Protocols  
 RS485 · RS232 · SPI · I2C · Modbus RTU

EEPROM 1KB | SRAM 2.5 KB | Flash 32 KB | CPU Speed 16 MHz

## REFERENCE LIST – 10IOS

### Communications

### Inputs / Outputs

Reference	Description	Serial TTL (UART)	I2C	SPI	RS232	RS485 Half / Full	Ethernet	Wi-Fi & BLE	GPRS / GSM	Digital Inputs	Analogue Inputs	Interrupt Inputs	Digital Outputs	Analogue Outputs	Relay Outputs	Input / Output 5Vdc
013001000100	10 I/Os Digital Module - Arduino NANO CPU	-	x1	-	-	x1	x1	-	-	x10 GPIOs	-	-	-	-	-	-
013002000100	10 I/Os Digital Module - ESP32 CPU	-	x1	-	-	x1	x1	x1	-	x10 GPIOs	-	-	-	-	-	-
013001000200	10 I/Os Relay Module - Arduino NANO CPU	-	x1	-	-	x1	x1	-	-	x10	-	-	-	-	x10	-
013002000200	10 I/Os Relay Module - ESP32 CPU	-	x1	-	-	x1	x1	x1	-	x10	-	-	-	-	x10	-



# ESP32 PLC

Original board included



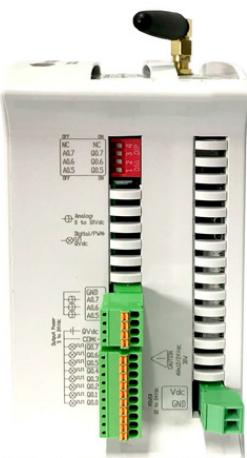
## ESP32 PLC 19R I/Os Relay / Analog / Digital

### 6 Inputs:

- (2x) Digital Optoisolated (5-24Vdc)
- (4x) Analog (0-10Vdc, 11bit) / Digital (5-24Vdc) configurables by software
- (2x) Interrupt (5-24Vdc). "Are part of the Digital inputs (5-24Vdc)".

### 11 Outputs:

- (3x) Analog (0-10Vdc, 12bit) / Digital (5-24Vdc) / PWM Isolated (5-24Vdc)
- (8x) Relay (220Vac - 5A)



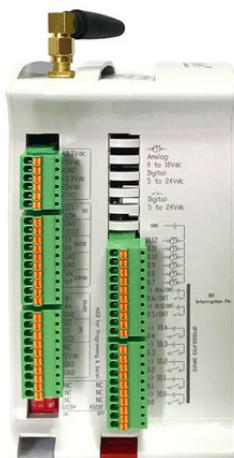
## ESP32 PLC 21 I/Os Analog / Digital

### 13 Inputs:

- (7x) Digital Optoisolated (5-24Vdc)
- (6x) Analog (0-10Vdc, 11bit) / Digital (5-24Vdc) configurables by software
- (2x) Interrupt (5-24Vdc). "Are part of the Digital inputs (5-24Vdc)".

### 8 Outputs:

- (5x) Digital Optoisolated (5-24Vdc)
- (3x) Analog (0-10Vdc, 12bit) / Digital (5-24Vdc) / PWM Isolated (5-24Vdc)



Ethernet

WiFi

Bluetooth LE

TCP / IP

Modbus RTU

Modbus TCP

RS485

Serial Port

SPI

TTL

I2C



## Industrial Standard Communications

## ESP32 PLC 38AR I/Os Relay / Analog / Digital

### 19 Inputs:

- (9x) Digital Optoisolated (5-24Vdc)
- (10x) Analog (0-10Vdc, 11bit) / Digital (5-24Vdc) configurables by software
- (4x) Interrupt (5-24Vdc). "Are part of the Digital inputs (5-24Vdc)".

### 19 Outputs:

- (5x) Digital Optoisolated (5-24Vdc)
- (6x) Analog (0-10Vdc, 12bit) / Digital (5-24Vdc) / PWM Isolated (5-24Vdc)
- (8x) Relay (220Vac-5A).

## ESP32 PLC 38R I/Os Analog / Digital / Relay

### 12 Inputs:

- (4x) Digital Optoisolated (5-24Vdc)
- (8x) Analog (0-10Vdc, 11bit) / Digital (5-24Vdc) configurables by software
- (4x) Interrupt (5-24Vdc). "Are part of the Digital inputs (5-24Vdc)".

### 22 Outputs:

- (6x) Analog (0-10Vdc, 12bit) / Digital (5-24Vdc) / PWM Isolated (5-24Vdc)
- (16x) Relay (220Vac - 5A)

## ESP32 PLC 42 I/Os Analog / Digital

### 26 Inputs:

- (14x) Digital Optoisolated (5-24Vdc)
- (12x) Analog (0-10Vdc, 11bit) / Digital (5-24Vdc) configurables by software
- (4x) Interrupt (5-24Vdc). "Are part of the Digital inputs (5-24Vdc)".

### 16 Outputs:

- (10x) Digital Optoisolated (5-24Vdc)
- (6x) Analog (0-10Vdc, 12bit) / Digital (5-24Vdc) / PWM Isolated (5-24Vdc)

# ESP32 PLC



## ESP32 PLC 50RRA I/Os Relay / Analog / Digital +

### 23 Inputs:

- (11x) Digital Optoisolated (5-24Vdc)
- (12x) Analog (0-10Vdc, 11bit) / Digital (5-24Vdc) configurables by software
- (6x) Interrupt (5-24Vdc). "Are part of the Digital inputs (5-24Vdc)"

### 30 Outputs:

- (5x) Digital Optoisolated (5-24Vdc)
- (9x) Analog (0-10Vdc, 12bit) / Digital (5-24Vdc) / PWM Isolated (5-24Vdc)
- (16x) Relay (220Vac-5A)

## ESP32 PLC 53ARR I/Os Relay / Analog / Digital +

### 25 Inputs:

- (11x) Digital Optoisolated (5-24Vdc)
- (14x) Analog (0-10Vdc, 11bit) / Digital (5-24Vdc) configurables by software
- (6x) Interrupt (5-24Vdc). "Are part of the Digital inputs (5-24Vdc)"

### 30 Outputs:

- (5x) Digital Optoisolated (5-24Vdc)
- (9x) Analog (0-10Vdc, 12bit) / Digital (5-24Vdc) / PWM Isolated (5-24Vdc)
- (16x) Relay (220Vac-5A)

## ESP32 PLC 54ARA I/Os Relay / Analog / Digital +

### 30 Inputs:

- (16x) Digital Optoisolated (5-24Vdc)
- (14x) Analog (0-10Vdc, 11bit) / Digital (5-24Vdc) configurables by software
- (6x) Interrupt (5-24Vdc). "Are part of the Digital inputs (5-24Vdc)"

### 27 Outputs:

- (10x) Digital Optoisolated (5-24Vdc)
- (9x) Analog (0-10Vdc, 12bit) / Digital (5-24Vdc) / PWM Isolated (5-24Vdc)
- (8x) Relay (220Vac-5A)

## Industrial Standard Communications

**ESP32** SRAM 512 KB | CPU Speed 160/240 MHz

WiFi - Bluetooth LE  
RS485 - Serial Port - SPI - TTL - I2C  
Ethernet - TCP / IP - Modbus RTU / TCP

## ESP32 PLC 57R I/Os Relay / Analog / Digital +

### 18 Inputs:

- (6x) Digital Optoisolated (5-24Vdc)
- (12x) Analog (0-10Vdc, 11bit) / Digital (5-24Vdc) configurables by software
- (6x) Interrupt (5-24Vdc). "Are part of the Digital inputs (5-24Vdc)"

### 33 Outputs:

- (9x) Analog (0-10Vdc, 12bit) / Digital (5-24Vdc) / PWM Isolated (5-24Vdc)
- (24x) Relay (220Vac - 5A)

## ESP32 PLC 57AAR I/Os Analog / Digital +

### 32 Inputs:

- (16x) Digital Optoisolated (5-24Vdc)
- (16x) Analog (0-10Vdc, 11bit) / Digital (5-24Vdc) configurables by software
- (6x) Interrupt (5-24Vdc). "Are part of the Digital inputs (5-24Vdc)"

### 27 Outputs:

- (10x) Digital Optoisolated (5-24Vdc)
- (9x) Analog (0-10Vdc, 12bit) / Digital (5-24Vdc) / PWM Isolated (5-24Vdc)
- (8x) Relay (220Vac - 5A)

## ESP32 PLC 58 I/Os Analog / Digital +

### 37 Inputs:

- (21x) Digital Optoisolated (5-24Vdc)
- (16x) Analog (0-10Vdc, 11bit) / Digital (5-24Vdc) configurables by software
- (6x) Interrupt (5-24Vdc). "Are part of the Digital inputs (5-24Vdc)"

### 24 Outputs:

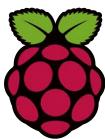
- (15x) Digital Optoisolated (5-24Vdc)
- (9x) Analog (0-10Vdc, 12bit) / Digital (5-24Vdc) / PWM Isolated (5-24Vdc)

# REFERENCE LIST - ESP32 PLC

Reference	Description	Communications								Inputs / Outputs							
		Serial TTL (UART)	I2C	SPI	RS232	RS485 Half / Full	Ethernet	Wi-Fi & BLE	VN/V/P	GPRS / GSM	Digital Inputs	Analog Inputs	Interrupt inputs	Digital Outputs	Analog Outputs	Relay Outputs	Inputs / Outputs 3.3Vdc
034001000200	ESP32 PLC Ethernet 21 I/Os Analog Digital +	x2 n.11	x1 n.12	x1	x1	x1	x1	x1	x1	opt. n.13	x7	x6 n.4	x2 n.5	x5	x3	-	x1
034001000400	ESP32 PLC Ethernet 42 I/Os Analog Digital +	x2 n.11	x1 n.12	x1	x1	x1	x1	x1	x1	opt. n.13	x14	x12 n.4	x4 n.5	x10	x6	-	x1
034001000600	ESP32 PLC Ethernet 58 I/Os Analog Digital +	x2 n.11	x1 n.12	x1	x1	x1	x1	x1	x1	opt. n.13	x21	x16 n.4	x6 n.5	x15	x9	-	x1
034001000100	ESP32 PLC Ethernet 19R I/Os Analog Digital +	x2 n.11	x1 n.12	x1	x1	x1	x1	x1	x1	opt. n.13	x2	x4 n.4	x2 n.5	x0	x3	x8	x1
034001000300	ESP32 PLC Ethernet 38R I/Os Analog Digital +	x2 n.11	x1 n.12	x1	x1	x1	x1	x1	x1	opt. n.13	x4	x8 n.4	x4 n.5	x0	x6	x16	x1
034001000500	ESP32 PLC Ethernet 57R I/Os Analog Digital +	x2 n.11	x1 n.12	x1	x1	x1	x1	x1	x1	opt. n.13	x6	x12 n.4	x6 n.5	x0	x9	x24	x1
034001000700	ESP32 PLC Ethernet 38AR+ I/Os Analog Digital +	x2 n.11	x1 n.12	x1	x1	x1	x1	x1	x1	opt. n.13	x9	x10 n.4	x4 n.5	x5	x6	x8	x1
034001000800	ESP32 PLC Ethernet 57AAR+ I/Os Analog Digital +	x2 n.11	x1 n.12	x1	x1	x1	x1	x1	x1	opt. n.13	x16	x16 n.4	x6 n.5	x10	x9	x8	x1
034001000900	ESP32 PLC Ethernet 50RRA+ I/Os Analog Digital +	x2 n.11	x1 n.12	x1	x1	x1	x1	x1	x1	opt. n.13	x11	x12 n.4	x6 n.5	x5	x9	x16	x1
034001001000	ESP32 PLC Ethernet 53ARR+ I/Os Analog Digital +	x2 n.11	x1 n.12	x1	x1	x1	x1	x1	x1	opt. n.13	x11	x14 n.4	x6 n.5	x5	x9	x16	x1
034001001100	ESP32 PLC Ethernet 54ARA+ I/Os Analog Digital +	x2 n.11	x1 n.12	x1	x1	x1	x1	x1	x1	opt. n.13	x16	x14 n.4	x6 n.5	x10	x9	x8	x1

n.4: From (Xx) Digital, (Yx) can be configured as Analog (Xx = Total Digital Input, Yx = Number of Analog Inputs) | n.5 : From (Xx) Digital, (Zx) can be configured as Switch (Xx = Total Digital Inputs, Zx = Number of Switch pins) | n.11 : USB only for uploading or debugging, not always connected as serial in a project! : If pin 2 and pin 3 are used, (x2) Inputs are lost | n.11: USB only for charging or debugging, not always connected as serial in a project! | n.12: 2 Inputs are lost. | n.13: optional





# PLC RASPBERRY

Raspberry Pi PLC Range



By using Raspberry Pi PLCs along with the right sensors and control elements, you can quickly implement dedicated industrial automation systems capable of meeting the requirements for a wide range of operations in industrial environments.

Raspberry Pi & GPRS PLC Range



Original  
Raspberry Pi  
included

## PANEL PC



Panel PCs for industrial environment using Linux or Android

### TFT

10.1" TouchScreen LVDS, 315 nits, 170° viewing angle.  
Format 16:9, 1280x720.

### Video in

MIPI CSI connector which lets you install an RPF camera module.

### Integrated Storage

SD /MMC / SDIO slot.

### Power supply

12Vdc to 24Vdc (5.5x2.5 Jack)

### Current consumption

2.5A (12Vdc) // 1,25A (24Vdc)

### Low level devices

10x GPIOs , SPI , I2C , UART

### LAN connectivity

10/100 Ethernet (RJ-45)

### CPU

**Raspberry Pi**  
Quad-core A53  
(ARMv8) 64-bit @  
1.4GHz

**Tinker Board**  
Rockchip Quad-  
Core RK3288

### SOFTWARE

**Linux**      **Android**

You can choose among these three Operating Systems to boot the Panel PC.

Depending on the requirements and/or needs of your installation, you have the flexibility to select the option that best suits your project.

Original Raspberry Pi



Choose the processor  
That fits your project

Original Tinker Board



TinkerTouch 7"



Panel PC based on TinkerBoard (ASUS), encasing a 7" TouchScreen.

From 12 to 24Vdc

10x GPIOs Optoisolated (5-24Vdc) configurable.

1x RS485-RS232\* - 1x Serial TTL - 1x I2C - 1x SPI - RTC (Real Time Clock)

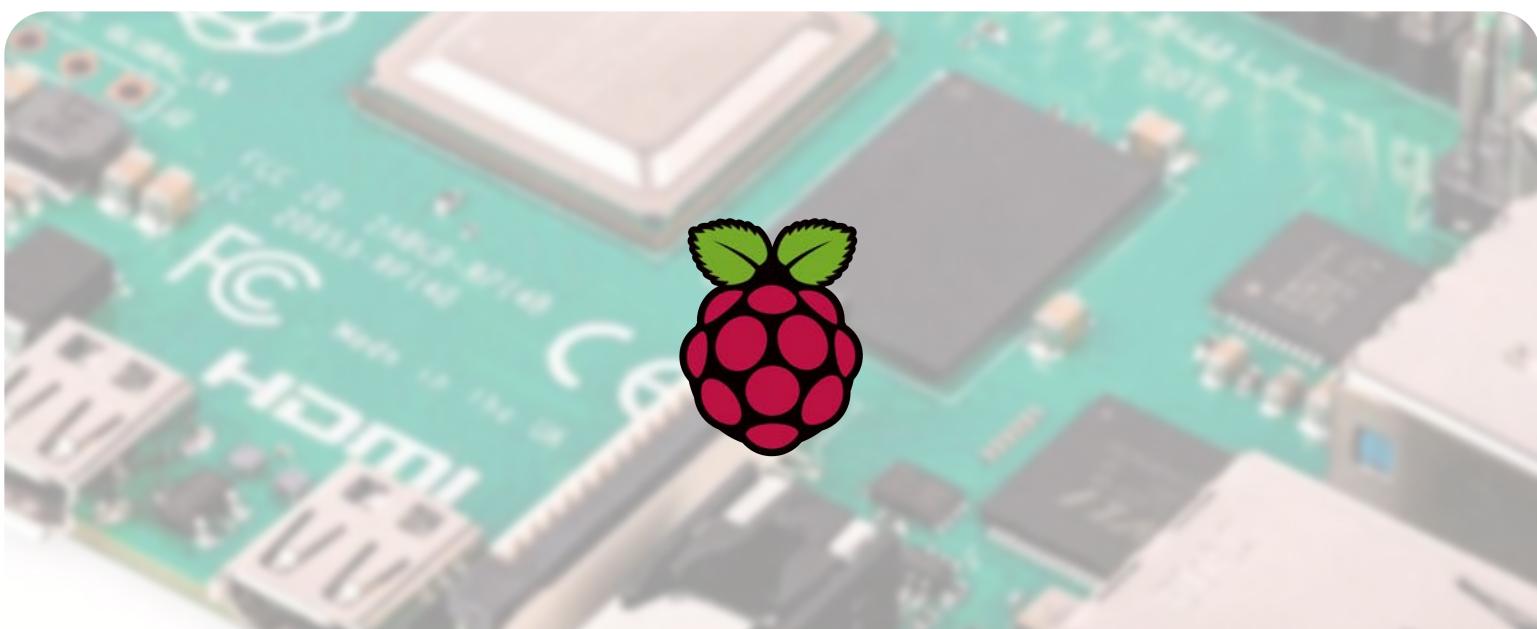
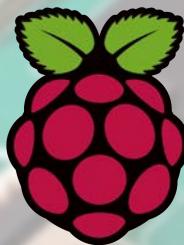
UPS included

# REFERENCE LIST - RASPBERRY PI PLC

Reference	Description	Communications							Inputs / Outputs						
		Serial/TTL (UART)	I2C	SPI	RS232	RS485 Half / Full	Ethernet	Wi-Fi & BLE	GPRS / GSM	Digital Inputs	Analog Inputs	Interrupt Inputs	Digital Outputs	Analog Outputs	Relay Outputs
01200X000000	Raspberry PLC Ethernet CPU	x1 n.13	x1 n.12	x1	-	x1	x2	x1	-	-	-	-	-	-	-
01200X000200	Raspberry PLC Ethernet 21 I/Os Analog/Digital PLUS	x1 n.13	x1 n.12	x1	-	x1	x2	x1	-	x7	x6 n.4	x2 n.5	x5	x3	-
01200X000400	Raspberry PLC Ethernet 42 I/Os Analog/Digital PLUS	x1 n.13	x1 n.12	x1	-	x1	x2	x1	-	x14	x12 n.4	x4 n.5	x10	x6	-
01200X000600	Raspberry PLC Ethernet 58 I/Os Analog/Digital PLUS	x1 n.13	x1 n.12	x1	-	x1	x2	x1	-	x21	x16 n.4	x6 n.5	x14	x9	-
01200X000100	Raspberry PLC Ethernet 19R I/Os Analog/Digital PLUS	x1 n.13	x1 n.12	x1	-	x1	x2	x1	-	x2	x4 n.4	x2 n.5	x0	x3	x8
01200X000300	Raspberry PLC Ethernet 38R I/Os Analog/Digital PLUS	x1 n.13	x1 n.12	x1	-	x1	x2	x1	-	x4	x8 n.4	x4 n.5	x0	x6	x16
01200X000500	Raspberry PLC Ethernet 57R I/Os Analog/Digital PLUS	x1 n.13	x2 n.12	x1	-	x1	x2	x1	-	x6	x12 n.4	x6 n.5	x0	x9	x24
01200X000700	Raspberry PLC Ethernet 38AR I/Os Analog/Digital PLUS	x1 n.13	x2 n.12	x1	-	x1	x2	x1	-	x9	x10 n.4	x4 n.5	x5	x6	x8
01200X000800	Raspberry PLC Ethernet 57AAR I/Os Analog/Digital PLUS	x1 n.13	x2 n.12	x1	-	x1	x2	x1	-	x16	x16 n.4	x6 n.5	x10	x9	x8
01200X000900	Raspberry PLC Ethernet 50RRA I/Os Analog/Digital PLUS	x1 n.13	x2 n.12	x1	-	x1	x2	x1	-	x11	x12 n.4	x6 n.5	x4	x9	x16
01200X001000	Raspberry PLC Ethernet 53ARR I/Os Analog/Digital PLUS	x1 n.13	x2 n.12	x1	-	x1	x2	x1	-	x11	x14 n.4	x6 n.5	x5	x9	x16
01200X001100	Raspberry PLC Ethernet 54ARA I/Os Analog/Digital PLUS	x1 n.13	x1 n.1	x1	-	x1 n.3	x2	x1	-	x16	x14 n.4	x6 n.5	x9	x9	x8

n.1: 1 Input & 1 Digital Out are lost | n.2: 2 Inputs & 2 Relay are lost | n.3: 2 Inputs & 2 Digital Outputs & 2 Analog Outputs are lost | n.4: From the (Xx) Digital, (Yx) can be configured as Analog (Xx = Total Digital In, Yx = Number of Analog In) | n.5 : From the (Xx) Digital, (Zx) can be configured as Interrupt (Xx = Total Digital In, Zx = Number of Interrupt pins) | n.6: If using RS-232 or RS-485 (x2) Analog Output are lost | n.7 : If using pin 2 and pin 3, (x2) In are lost | n.8: 1 Inputs & 1 Relay are lost | n.9: 2 Inputs & 2 Relay are lost | n.10: 2 Inputs & 2 Relay are lost | n.11: USB Only meant for uploading or debugging, not always connected as serial in a project! | n.12: 2 Inputs are lost | n.13: If using Serial 1. WiFi not available | n.14: If using WiFi, Serial 1 is not available | n.15: Pin 2 is used as GPRS/GSM Module Reset, DON'T USE!

XXXXX2XXXXXX	Raspberry Pi 4B 2GB RAM Included
XXXXX3XXXXXX	Raspberry Pi 4B 4GB RAM Included
XXXXX4XXXXXX	Raspberry Pi 4B 8GB RAM Included
XXXXXXXXXXXXF*	Additional FAN

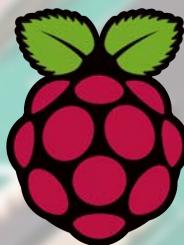


# REFERENCE LIST - RASPBERRY PI & GPRS PLC

Reference	Description	Communications							Inputs / Outputs							
		Serial/TTL (UART)	I2C	SPI	RS232	RS485 Half/ Full	Ethernet	Wi-Fi & BLE	GPRS / GSM	Digital Inputs	Analog Inputs	Interrupt Inputs	Digital Outputs	Analog Outputs	Relay Outputs	In / Out 5Vdc
01600X000200	Raspberry PLC & GPRS 21 I/Os Analog/Digital PLUS	x1 n.13	x1 n.12	x1	-	x1	x2	x1	x1	x7	x6 n.4	x2	x5	x3	-	-
01600X000400	Raspberry PLC & GPRS 42 I/Os Analog/Digital PLUS	x1 n.13	x1 n.12	x1	-	x1	x2	x1	x1	x14	x12 n.4	x4	x10	x6	-	-
01600X000600	Raspberry PLC & GPRS 58 I/Os Analog/Digital PLUS	x1 n.13	x1 n.12	x1	-	x1	x2	x1	x1	x20	x16 n.4	x5	x14	x9	-	-
01600X000100	Raspberry PLC & GPRS 19R I/Os Analog/Digital PLUS	x1 n.13	x1 n.12	x1	-	x1	x2	x1	x1	x2	x4 n.4	x2	x0	x3	x8	-
01600X000300	Raspberry PLC & GPRS 38R I/Os Analog/Digital PLUS	x1 n.13	x1 n.12	x1	-	x1	x2	x1	x1	x4	x8 n.4	x4	x0	x6	x16	-
01600X000500	Raspberry PLC & GPRS 57R I/Os Analog/Digital PLUS	x1 n.13	x1 n.12	x1	-	x1	x2	x1	x1	x5	x12 n.4	x5	x0	x9	x24	-
01600X000700	Raspberry PLC & GPRS 38AR I/Os Analog/Digital PLUS	x1 n.13	x2 n.12	x1	-	x1	x2	x1	x1	x9	x10 n.4	x4	x5	x6	x8	-
01600X000800	Raspberry PLC & GPRS 57AAR I/Os Analog/Digital PLUS	x1 n.13	x2 n.12	x1	-	x1	x2	x1	x1	x15	x16 n.4	x5	x10	x9	x8	-
01600X000900	Raspberry PLC & GPRS 50RRA I/Os Analog/Digital PLUS	x1 n.13	x2 n.12	x1	-	x1	x2	x1	x1	x10	x12 n.4	x5	x4	x9	x16	-
01600X001000	Raspberry PLC & GPRS 53ARR I/Os Analog/Digital PLUS	x1 n.13	x2 n.12	x1	-	x1	x2	x1	x1	x10	x14 n.4	x5	x5	x9	x16	-
01600X001100	Raspberry PLC & GPRS 54ARA I/Os Analog/Digital PLUS	x1 n.13	x2 n.12	x1	-	x1	x2	x1	x1	x15	x14 n.4	x5	x9	x9	x8	-

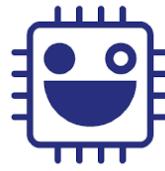
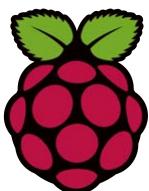
n.1: 1 Input & 1 Digital Out are lost | n.2: 2 Inputs & 2 Relay are lost | n.3: 2 Inputs & 2 Digital Outputs & 2 Analog Outputs are lost | n.4: From the (Xx) Digital, (Yx) can be configured as Analog (Xx = Total Digital In, Yx = Number of Analog In) | n.5 : From the (Xx) Digital, (Zx) can be configured as Interrupt (Xx = Total Digital In, Zx = Number of Interrupt pins) | n.6: If using RS-232 or RS-485 (x2) Analog Output are lost | n.7 : If using pin 2 and pin 3, (x2) In are lost | n.8: 1 Inputs & 1 Relay are lost | n.9: 2 Inputs & 2 Relay are lost | n.10: 2 Inputs & 2 Relay are lost | n.11: USB Only meant for uploading or debugging, not always connected as serial in a project! | n.12: 2 Inputs are lost | n.13: If using Serial 1. WiFi not available | n.14: If using WiFi, Serial 1 is not available | n.15: Pin 2 is used as GPRS/GSM Module Reset, DON'T USE!

XXXXXX2XXXXXX	Raspberry Pi 4B 2GB RAM Included
XXXXXX3XXXXXX	Raspberry Pi 4B 4GB RAM Included
XXXXXX4XXXXXX	Raspberry Pi 4B 8GB RAM Included
XXXXXXXXXXXXXF*	Additional FAN



# REFERENCE LIST - PANEL PC

CPU	Reference	Description	Raspberry Pi	Asus
Raspberry Pi	003002000100	Touchberry PI 10.1 4B (Panel PC Industrial EMC Aluminum - Raspberry PI 4B Included + µSD Card with Raspbian)	Raspberry Pi 4 Model B Single Board Computer (SBC) Microcontroller	Raspberry Pi 4 Model B Single Board Computer (SBC) Microcontroller
	003002000200	Touchberry PI 10.1 4B (Panel PC Industrial EMC Aluminum - Raspberry PI 4B Included + 16Gb µSD Card without OS)	2 GB	2 GB
	003002000300	Touchberry PI 10.1 4B (Panel PC Industrial EMC Aluminum - Raspberry PI 4B Included)	2 GB	2 GB
	003002000400	Touchberry PI 10.1 4B UPS (Panel PC Industrial EMC Aluminum - Raspberry PI 4 B Included + µSD Card with Raspbian - UPS included)	2 GB	2 GB
	003002000500	Touchberry PI 10.1 4B UPS & RTC & RS485 (Panel PC Industrial EMC Aluminum - Raspberry PI 4 B Included + µSD Card with Raspbian - UPS,RTC,RS485 Functions included)	2 GB	2 GB
	003002400100	TouchBerry PI 7" - 10 Configurable I/Os - RS485 - RS232 - UPS Included (Raspberry Pi 4B)	2 GB	2 GB
	003001100100	TinkerTouch S 10.1 (Panel PC Industrial, Aluminum enclosure, EMC compliance - ASUS Quad-Core, 2GB, 16Gb eMMC + MicroSD slot - LINUX)	ASUS Tinker Board	ASUS Tinker Board
	003001100200	TinkerTouch S 10.1 (Panel PC Industrial, Aluminum enclosure, EMC compliance - ASUS Quad-Core, 2GB, 16Gb eMMC +MicroSD slot - ANDROID)	ASUS Tinker Board	ASUS Tinker Board
	003001200100	TinkerTouch S 10.1 UPS (Panel PC Industrial, Aluminum enclosure, EMC compliance - ASUS Quad-Core, 2GB, 16Gb eMMC + MicroSD slot - UPS function included - LINUX)	ASUS Tinker Board	ASUS Tinker Board
	003001200200	TinkerTouch S 10.1 UPS (Panel PC Industrial, Aluminum enclosure, EMC compliance - ASUS Quad-Core, 2GB, 16Gb eMMC +MicroSD slot - UPS function included - ANDROID)	ASUS Tinker Board	ASUS Tinker Board
	003001300100	TinkerTouch S 10.1 UPS & RTC & RS485 (Panel PC Industrial, Aluminum enclosure, EMC compliance - ASUS Quad-Core, 2GB, 16Gb eMMC + MicroSD slot - UPS,RTC,RS485 Functions included - LINUX)	ASUS Tinker Board	ASUS Tinker Board
	003001300200	TinkerTouch S 10.1 UPS & RTC & RS485 (Panel PC Industrial, Aluminum enclosure, EMC compliance - ASUS Quad-Core, 2GB, 16Gb eMMC + MicroSD slot - UPS, RTC, RS485 Functions included - ANDROID)	ASUS Tinker Board	ASUS Tinker Board
	003001400100	TinkerTouch 7" - 10 Configurable I/Os - RS485 - RS232 - UPS Included - Linux installed into eMMC	Linux	Linux
CPU				
Reference				
Description				
Raspberry Pi				
Asus				



# LIBRARIES, COMMUNICATIONS, PROTOCOLS

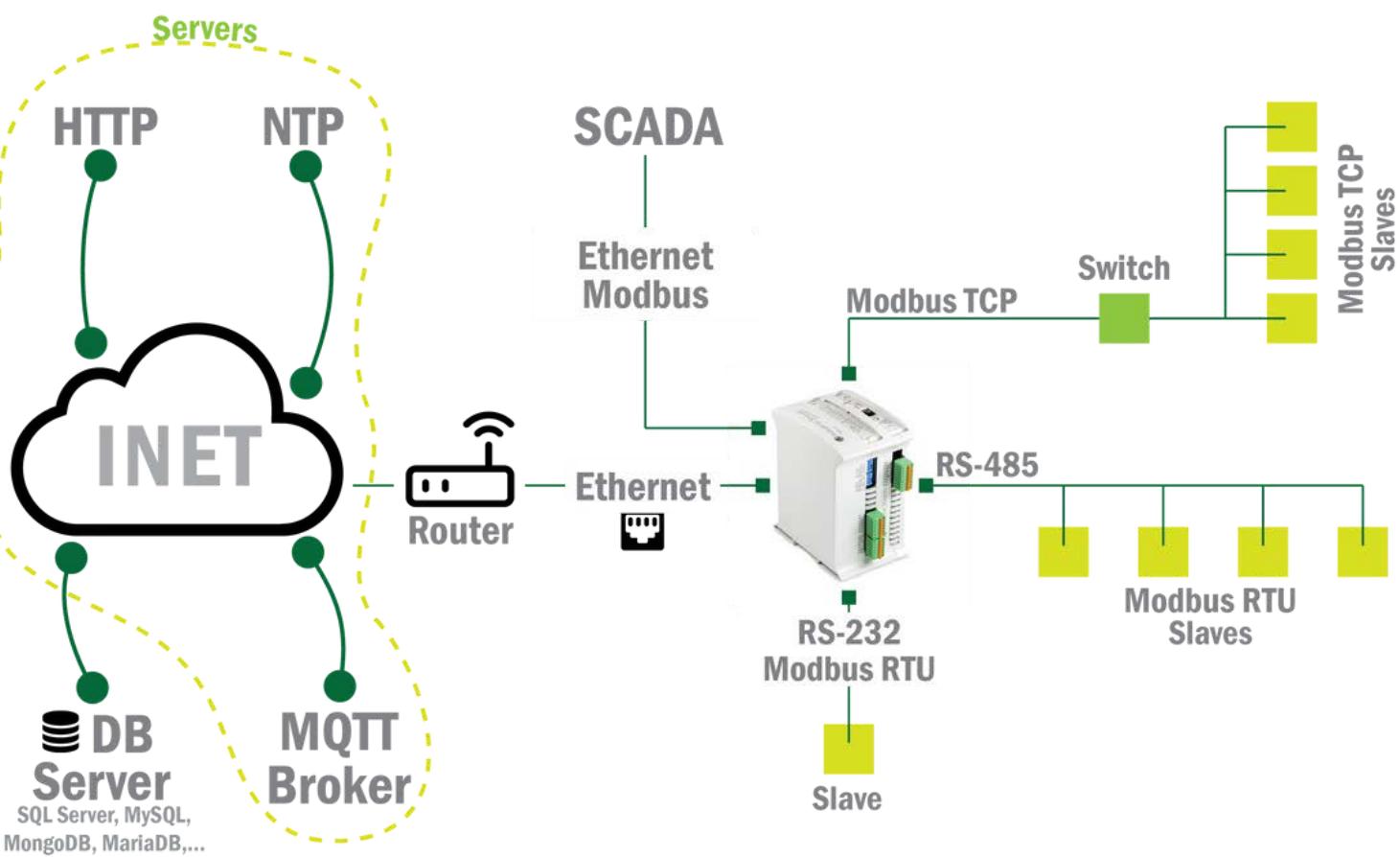
## Available Libraries in our Blog and GitHub

Application Layer	MySQL	SQL Server	SimpleComm	Modbus TCP	MQTT	http	Raw Data	NTD	Raw Data	Modbus RTU	SimpleComm	Raw Data	Modbus RTU	SimpleComm	Sensor Data	Sensor Data	Sensor Data
	Data Base																
4- Transport	TCP						UDP										
3- Network	IP																
2- Data Link	Ethernet / WiFi								RS-485		RS-232		TTL/SPI	I2C			One Wire
1- Physical	GPRS								Serial UART								

🔗 <https://github.com/IndustrialShields>

ℹ️ <https://www.industrialshields.com/blog/industrial-shields-blog-1>

With our PLC's you can communicate using several protocols like RS-232, RS-485, Modbus TCP, or using ethernet, etc.  
It's possible to send and receive information from several server types (HTTP, NTP, MQTT) or DB Servers.



OpenMote B is a Super LOW consumption mote for the IoT applications.

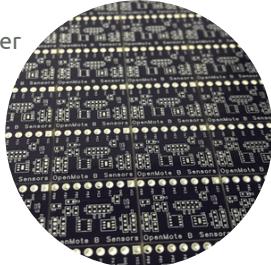
It is the reference for the IETF 6TiSCG Working Group and is supported by all the Open Source 6TiSCH implementation in Contiki and OpenWSN projects.

- **High Autonomy (>10 years\*)**
- **Less than 50µA Consumption**
- **USB Interface**

## Tech Features

### Technical characteristics:

- Temperature sensor, Humidity sensor, Pressure sensor, Luminosity sensor
- 4x Leds indicators
- 2xAA Battery placeholder
- 2.4GHz SMA Antenna
- SubGHz SMA Antenna



# OPEN MOTE



### Main Features

- Ti CC2538 SoC (512kb Flash 32kb RAM)
- Atmel AT86RF215 SubGHz Radio (868/915MHz)
- Supports all IEEE802.15.4g modulations
- Simultaneous dual radio Operation

### Programming

- Programming over BSL
- Supported in Contiki and OpenWSN for experimentation
- JTAG and OCD compliant
- USB Interface

### OpenMote B

OpenMote B is a Raspberry compatible IoT hardware in compliance with the standard IEEE802.15.4g and it can be programmed by Open Source platforms.

## POWER SUPPLY



Din RAIL Power Supply 120W



Din RAIL Power Supply 180W



Din RAIL Power Supply 240W

- AC-DC, 120W, 1 Output 5A at 24Vdc

- AC-DC, 180W, 1 Output 7.5A at 24Vdc

- AC-DC, 240W, 1 Output 10A at 24Vdc



Din RAIL Power Supply 30W



Din RAIL Power Supply 30W



Din RAIL Power Supply 50W

- AC-DC, 30W, 1 Output 2.5A at 12Vdc

- AC-DC, 30W, 1 Output at 24Vdc

- AC-DC, 50W, 1 Output at 24Vdc

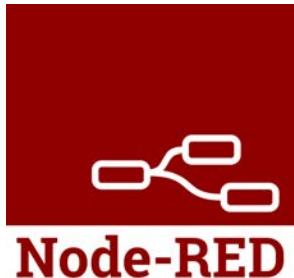
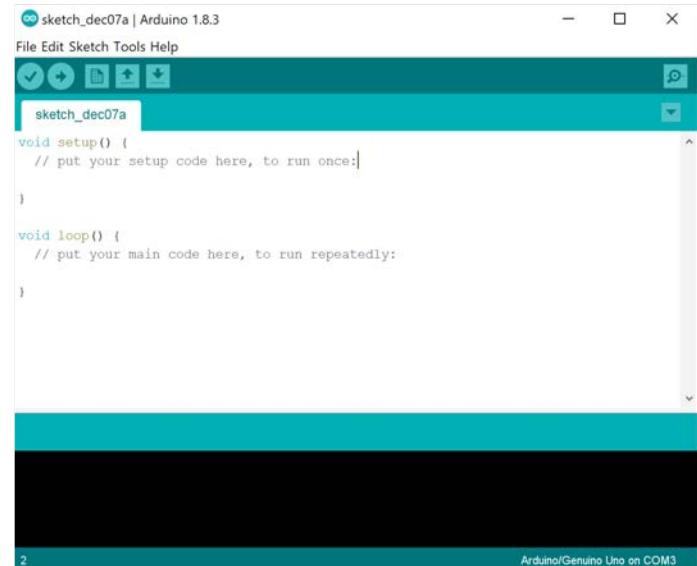
# SOFTWARE



## Arduino IDE is the Original platform to program Arduino boards

Our Arduino based PLCs use Original Arduino boards assembled inside all devices

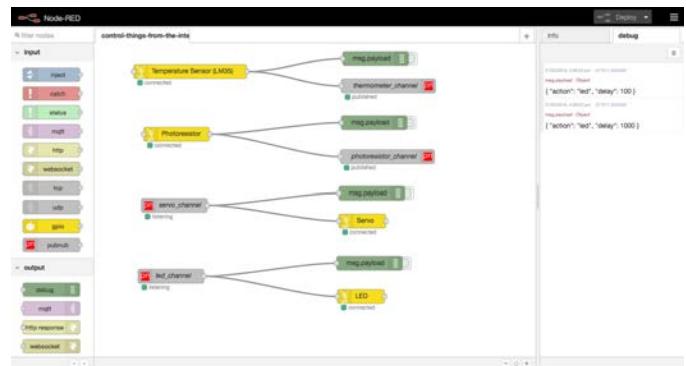
- Free software licenses
- Standard Libraries available
- Documentation and examples available, ready to use
- Industrial Shields libraries available to facilitate the programming of our PLCs



## NodeRED. Platform to develop Apps, Servers, Dashboards and more.

Node-Red is a programming tool for wiring together hardware devices, APIs and online services in new and interesting ways. It is very intuitive, easy and fast-programming. It is an excellent tool for working graphically.

- It provides a browser-based editor that makes it easy to connect flows using nodes.
- Online debugging application



Our PLCs can be programmed with all software platforms compatible with Arduino IDE.

Electron · Codebender · Stino · Eclipse · Visual Studio · Gedit · Komodo Edit · MariaMole · Zeus · Atmel Studio · AVR-GCC · CodeBlocks · ROBOTC for Arduino · Xcode · ArduinoDroid · Notepad++ · Programino · and more...

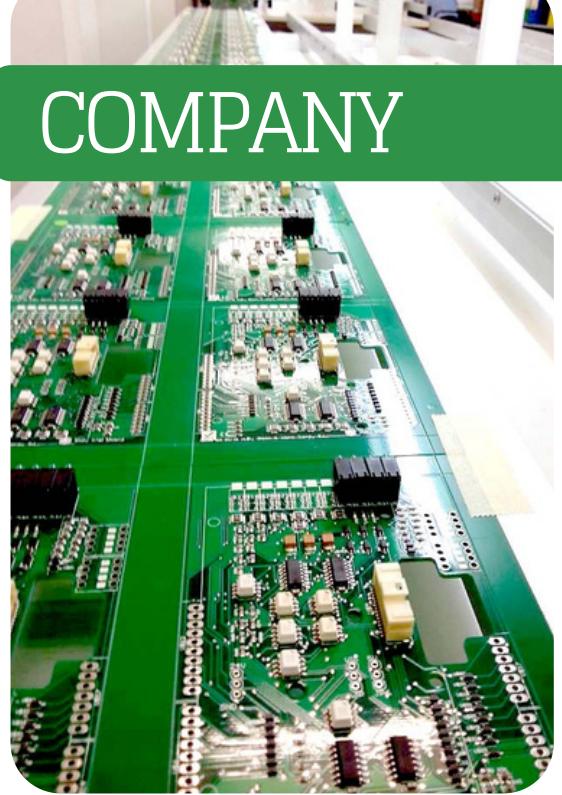
Our Panel PCs can work with Linux and Android which means that, if your team has enough knowledge, you can create a custom applications for the Panel PCs. You will have more flexibility to fit the needs of your installation or application.



**Industrial Shields** was born in October 2012 from the hand of an engineer, who, searching for a more flexible PLC equipment and a better price, decided to develop his own solution using **Open Source Hardware**.

Therefore **Industrial Shields** is the brand that provides **Open Source Hardware** for industrial use, including all design and safety required, combining the best of two worlds.

**Industrial Shields**, designs, produces and markets the range of products based on **Open Source Hardware**.



Bigdata  
Cloud Computing  
Flexible Hardware  
Industrial Internet of Things

Boot & Work Corp. S.L. is a company committed to the promotion, development, manufacture and sale of products based on Open Source technology to liberalize the industrial sector and boost the growth of its customers.

The aim of our company is to provide low-cost solutions for automation in industrial environments.

**Open Source Hardware** solutions are not yet widely introduced in the industrial sector, it is a growing market and we are its pioneers.

The balance between **quality and cost is very important** for us and therefore for the market, using Open Source solutions we can provide more specifications at a better price.

In addition, the Open Source solutions are **more flexible and accessible** than standard industrial solutions and, furthermore, **the software is license free**.

Industrial Shields is convinced with a focus on **Industry 4.0 and the Internet of Things**.

QUALITY



**RoHS**  
COMPLIANT



In compliance with :

EN61010-1 | EN61010-2-201 | EN61131-2:2007 (Clause 8: Zone A/B EMC and clause 11:LVD) |  
EN61000-6-4:2007 + A1 2011 (Emissions) | EN 61000-6-2:2005 (Immunity) | EMC: FCC Part 15



# EVOLVING

## 2007-2010

Through the IEEE-UNEDsb we started to know Arduino and used it to manufacture machinery as a prototype. We created the first Shields for industrial use for machinery in the labelling sector and automatic production lines.

## 2012

Boot & Work Corp. is created with the aim of standardizing a product based on Open Source technology for use in industrial environments.

## 2013

Boot & Work Corp wins the award for the best Innovative company in Barberà del Valles. First prototype units. The Ardbox is coming.

## 2014

We created the Industrial Shields brand from where we started to market a first basic family of products. First unit sold online to Libya.

## 2015

Industrial Shields has commercialized equipment based on Open Source technology to more than 20 countries.

## 2016

5 distributors in different countries (UK, Germany, USA, Mexico and Italy) and more than 500 customers in all types of industrial sectors.

## 2017

We have over 17 distributors in 15 countries from all continents and have reached more than 75 countries.

## 2018

International trade shows in Barcelona, Paris and Bangalore. Investment in improving facilities, quality processes, industrial certifications.

## 2019

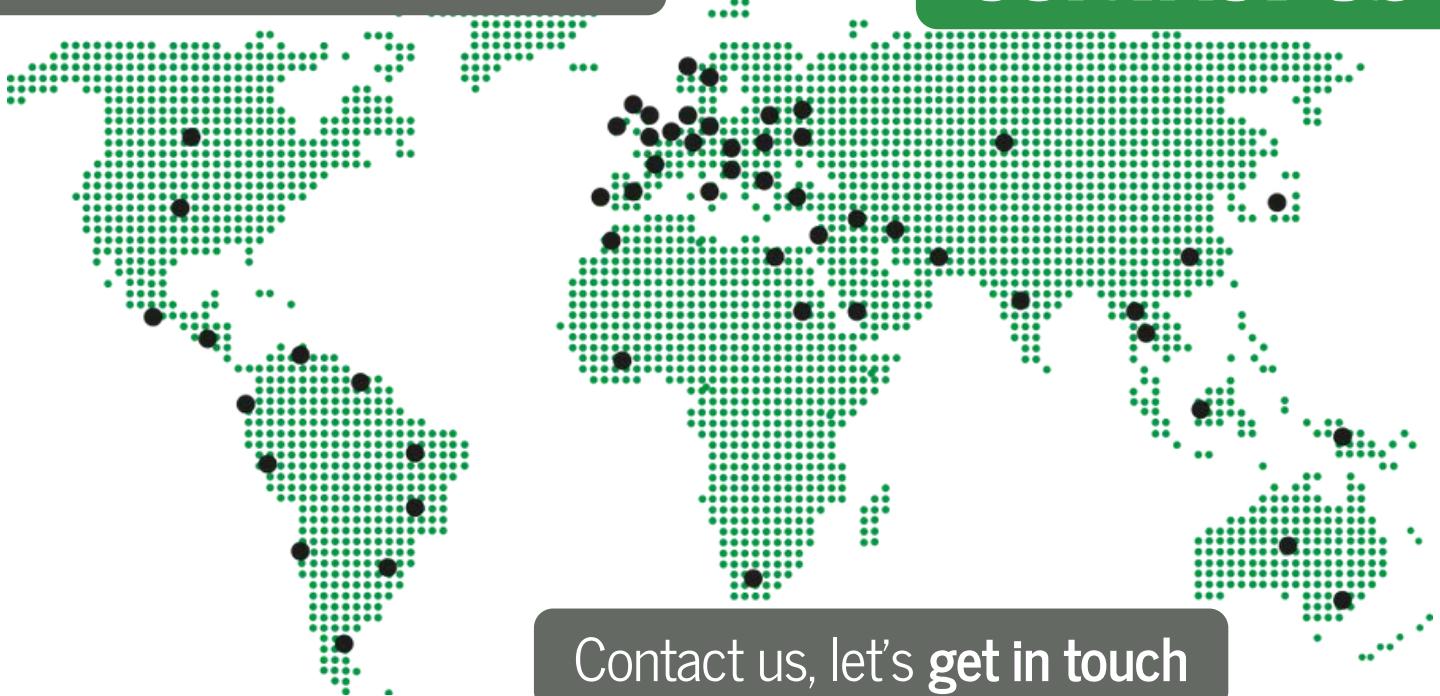
Presence in over 90 countries, more than 20 distributors worldwide. New products developments, PLCs with WiFi and GPRS/GSM.

## 2020

Presence in more than 100 countries, more than 40 distributors around the world. New developments: Raspberry PLC, Dali PLC, LoRa PLC.

Presence in more than 100 countries

## CONTACT US



Contact us, let's **get in touch**

**Industrial Shields** has been working worldwide through distributors, or in direct contact with customers. We have been working since 2016 with major market players who are selling our products on their websites.

Our **sales, technical and support team** will assist you by phone, email, Skype; or by using the ticket system or chatting directly on our website.

**Get in touch with us. We are here, glad to help and support you.**



Fàbrica del Pont 1-11  
(Recinte industrial del Pont Vell)  
Sant Fruitós de Bages 08272 (Barcelona)  
Spain



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industrialshields@industrialshields.com



**www** <https://www.industrialshields.com>

