

MAPLE MODULAR PLC - CPU



PLC-ES0808P *
PLC-ES0806R *



PLC-ES1616P

FEATURES

- Embedded Digital inputs and outputs that are group-isolated.
- PID control, 32 loops with auto-tuning. HSC, 20 kHz (kpps), 2 channels, 2 phase, open-collector.
- High speed pulse output, 100 kHz (kpps), 2 axes, direction-position-speed control.
- 1 Ethernet, 1 RS-232, and 1 RS-485/422 port.
- Supports Modbus TCP**/RTU master, Modbus TCP/RTU slave, and User Protocol TCP***/RTU.
- RTC with 10-year lifespan.
- Edit program while in RUN mode.
- Expand up to 11 I/O modules, with the capacity for 384 I/O.

*PLC-ES0806R does not support high speed pulse output due to the inherent limitation of relay contact speed.

*PLC-ES0808P does not support OPR control.

**Modbus TCP/IP Master requires the MOD-SENT01 expansion module.

***User Protocol TCP requires the MOD-SENT01 expansion module.

BENEFITS

- All-in-one unit.
- Diagnostic LEDs.
- CPU automatically detects I/O modules within software.
- Automatically detects sink/source input, no programming required.

FUNCTIONAL

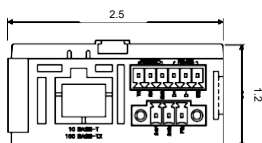
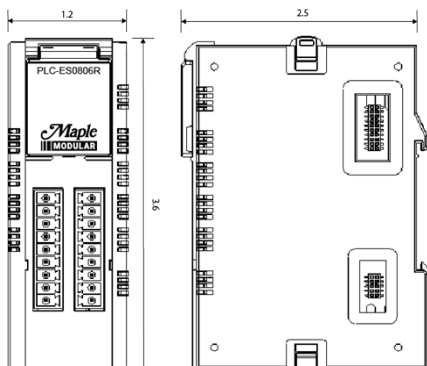
Part Number	PLC-ES0806R	PLC-ES0808P	PLC-ES1616P
Power Consumption	12 W, 12/24 VDC, 0.5 A at 24 VDC Note: 24 VDC is needed for Relay Outputs		
Input Type	Solid State Transistor - Sink/Source		
Output Type	Relay	Solid State Transistor - Source	
Number of Channels	(14 Total) 8 Digital Inputs 6 Digital Relay Outputs	(16 Total) 8 Digital Inputs, 8 Digital Outputs (2 high speed 100kHz)	(32 Total) 16 Digital Inputs, 16 Digital Outputs (2 high speed 100kHz) Note: ACC-TB32M and ACC-SCB15M Included
Rated HSC Input Voltage	12 or 24 VDC If using 5V, see our HSC expansion module (IO-SHSC02) Note: Not tied to CPU power input		
Rated Input Current	4 mA		
Input Insulation Method	Photocoupler		
Rated Digital Input Voltage	<u>Digital Input ON</u> CH1-4: 12 or 24 VDC CH5-8: 24 VDC		<u>Digital Input ON</u> CH1-4: 12 or 24 VDC CH5-8: 24 VDC
Rated Output Voltage	24 VDC, 220 VAC (According to Power Supply)	12/24 VDC	
Rated Output Current	1 point = 2 A 1 COM = 5 A	Note: Separate from CPU power input 1 point = 0.2 A 1 COM = 2 A	
Output Insulation Method	Relay Contact	Photocoupler	
Communication Ports	RS-232, 1 Channel RS-485/422, 1 Channel Ethernet, 1 Port		
Utility/Program Port	Mini-B USB, Ethernet, RS-232/485/422		Mini-B USB, SD card, Ethernet, RS-232/485/422
Programming Specifications	Program Languages: LD (Ladder), IL (Instruction List), FB (Function Block), SFC Program Memory: 10K STEP, Instruction Library: 55 (basic), 389 (advanced) Execution Speed: 300ns/STEP Number of IO Points: 384 (maximum)		

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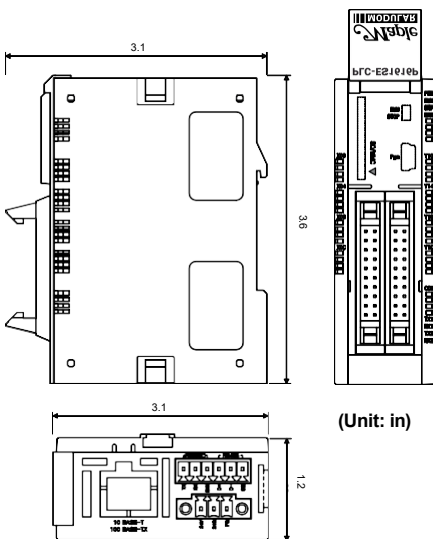
PHYSICAL

PLC-ES0806R
PLC-ES0808P



(Unit: in)

PLC-ES1616P



(Unit: in)

Part Number	PLC-ES0806R	PLC-ES0808P	PLC-ES1616P
Product Dimensions (H x W x D)	3.6 x 1.2 x 2.5 in (91 x 30 x 64 mm)		3.6 x 1.2 x 3.1 in (91 x 30 x 77.6 mm)
Product Weight	0.36 lb (165 g)	0.34 lb (155 g)	0.26 lb (120 g)

ENVIRONMENTAL

Item	Specification	Standards
Operating Temperature	-10 – +60 °C (+14 – +140 °F)	-
Storage Temperature	-25 – +80 °C (-13 – +176 °F)	-
Operating/ Storage Relative Humidity	5 – 95% Non-condensing	-
Shock	15G	IEC 61131-2
Vibration	0.5G - Continuous 1G - Discontinuous	IEC 61131-2
Square Wave Impulse Noise	±2 kV	-
ESD Immunity	±4 kV - Contact Discharges ±8 kV - Air Discharges	IEC 61131-2 IEC 61000-4-2
Radiated Electromagnetic Immunity	80–1000 MHz, 10 V/m	IEC 61131-2 IEC 61000-4-3
Surge Transient Immunity	2 kV - CPU, Power 2 kV - Digital I/O (VAC) 1 kV - Digital I/O (VDC) 1 kV - Communication	IEC 61131-2 IEC 61000-4-4

*ACC-TB32M (Terminal Block) and
ACC-SCB15M (Terminal Block
Cable) Included for PLC-ES1616P