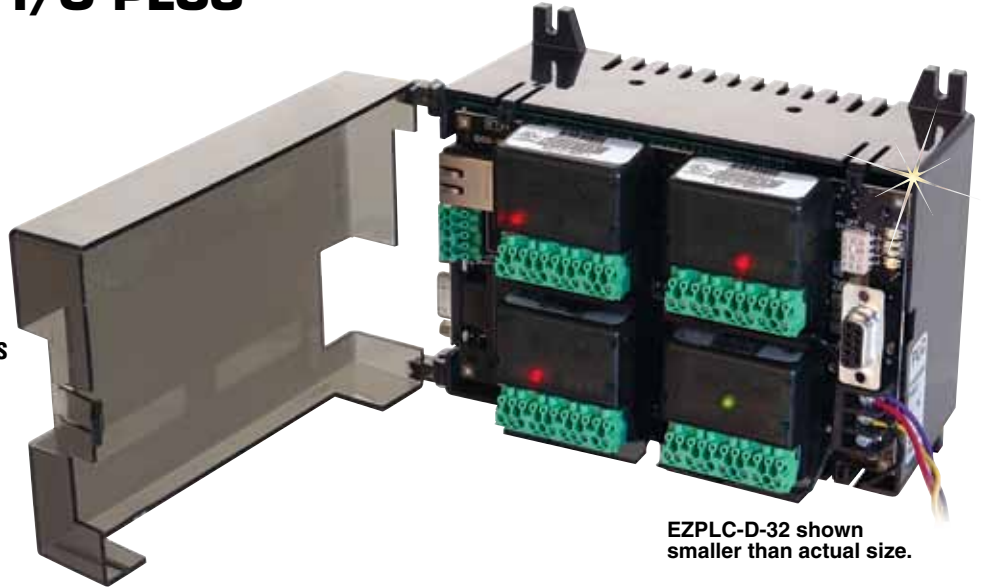


HIGH PERFORMANCE MODULAR **EZPLC™** EXPANDABLE UP TO 2048 I/O

MODULAR PLCS AT THE PRICE OF FIXED I/O PLCS

- 3ms Scantime
- 64KB Memory, 8192 Registers
- Expandable to 2048 I/O
- 8 Autotuned PID Loops
- 32 Bit Floating Point Math
- Drag-n-Drop Ladder Programming
- Snap-In I/O Modules
- Built-In RS232 & RS422/485 Ports
- 4 In 4 Out Wide Variety of Mix-n-Match Ultra Compact I/O Modules
- Built-In MODBUS® RTU Driver
- 8pt DC I/O
- 8pt 12 bit Analog I/O
- Built-In Realtime Clock/Calendar
- Small Compact Foot-Print



EZPLC-D-32 shown smaller than actual size.

Same Hardware and Software from 8 - 2048 I/O



4 Slot Base
(32 I/O Max)

6 Slot Base
(48 I/O Max)



8 Slot Base
(64 I/O Max)



12 Slot Base (96 I/O Max)

Easy to Learn Drag-n-Drop Programming Software



- Familiar Ladder Programming
- Drop-Down Dialog Boxes
- Each Rung Commented
- 32 Bit Floating Point Math
- Powerful Data Conversion
- String Instructions
- Drum Sequencer
- Subroutines/Interrupt Routines
- Move Block/Bit Move
- Marquee Instructions

Distributed I/O for High Horsepower Local Logic



Every PLC has 40MHz CPU to be Master and also Solve Local Logic

- Program Entire Network of I/Os Though 1 Master
- Choice of Master to do all Logic or Each PLC Can Do its Own Logic
- Connect Over RS422/485 Port or Ethernet Port

WE LOOKED AT EVERY DETAIL IN THE DESIGN OF EZ I/O

Snap-in I/O Module

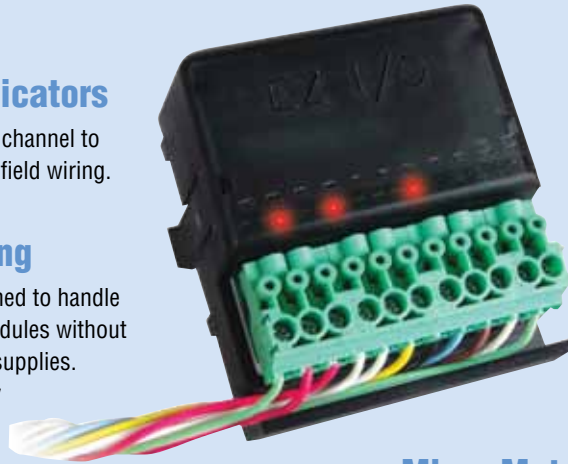
EZ I/O modules are designed with one thing in mind – modularity! Each and every EZ I/O module can be utilized with EZPLC, EZ Series TouchPLC and EZ series TextPLC for a truly modular I/O.

I/O Status LED Indicators

LED indicator lights on every channel to help troubleshoot and debug field wiring.

No Power Budgeting

All EZ Family PLCs are designed to handle any combination of EZ I/O modules without any need for external power supplies. EZ I/O modules consume only 20 to 40 mA power at 3.3V.



Wiring Duct for Routing Field Wires

Every EZ I/O module has a wiring duct for routing field wiring in neat bundles.

Removable Terminal Block

EZ I/O modules come with male headers to accommodate 11 point removable Phoenix terminal blocks (UL rated for 300V 10 Amp 14 AWG) for ease of wiring.



Compact

Extremely small size, 51 x 51 x 25 mm (2 x 2 x 1").

Mix-n-Match

AC and DC, input and outputs are mixed-n-matched to provide maximum flexibility.

WIDE VARIETY OF AC/DC, IN/OUT, DIGITAL/ANALOG, THERMOCOUPLE, RTD & COUNTER I/O MODULES

Thermocouple Input Module

4 differential inputs, Types J, K, S, T
±0.1° C or F resolution, ±15 ppm per deg. accuracy

RTD Module

4 channel RTD inputs, Types Pt100, Pt1000, 120 Ni, 10 Cu, No User Power Required, 12 Bit resolution

4 Analog In, 4 Analog Out Current

Single ended, 0 to 20 mA or 4 to 20 mA DIP switch selectable, 12 Bit resolution

4 Analog In, 4 Analog Out Voltage

Single ended, 0 to 5 Vdc or 0 to 10 Vdc DIP switch selectable, 12 Bit resolution

8 Analog In Current

Single ended, 0 to 20 mA or 4 to 20 mA DIP switch selectable, 12 Bit resolution

8 Analog Input Voltage

Single ended, 0 to 5 Vdc or 0 to 10 Vdc DIP switch selectable, 12 Bit resolution

All Digital Modules Optically Isolated

8pt 24 Vdc Input Module

10 to 24 Vdc Sink or Source

8pt 24 Vdc Output Module (Source)

0.5 A per output, 1 A max per module, short circuit proof

8pt 24 Vdc Output Module (Sinking)

0.5 A per output, 1.4 A max per module, short circuit proof

4pt 24 Vdc In/4pt 24 Vdc Out Sinking

10 to 24 Vdc Sink or Source, 0.5 A per output, 1.4 A max per module, short circuit proof

4pt 24 Vdc In/4pt 24 Vdc Out Source

10 to 24 Vdc Sink or Source, 0.5 A per output, 1 A max per module, short circuit proof

8pt 110 Vac Input Module

70 to 132 Vac, 200K impedance

8pt 110 Vac Output Module

1.2 A each

4pt 110 Vac In/4pt 110 Vac Out

70 to 132 Vac, 200K Ω, 1.2 A each

4pt 24 Vdc Out/4pt 110 Vac Out 4pt 110 Vac/4pt 24 Vdc Out Source

4pt 24 Vdc In/4pt 110 Vac Out

4pt Relay Output Module

1 Form A (SPST), 120 Vdc peak voltage, 1 A per output, 1ms response

4pt 110 Vac In/4pt Relay Out

4pt 24 Vdc In/4pt Relay Out

8pt 24 Vdc High Speed Input Module

10 to 24 Vdc Sink or Source, 0.3ms response

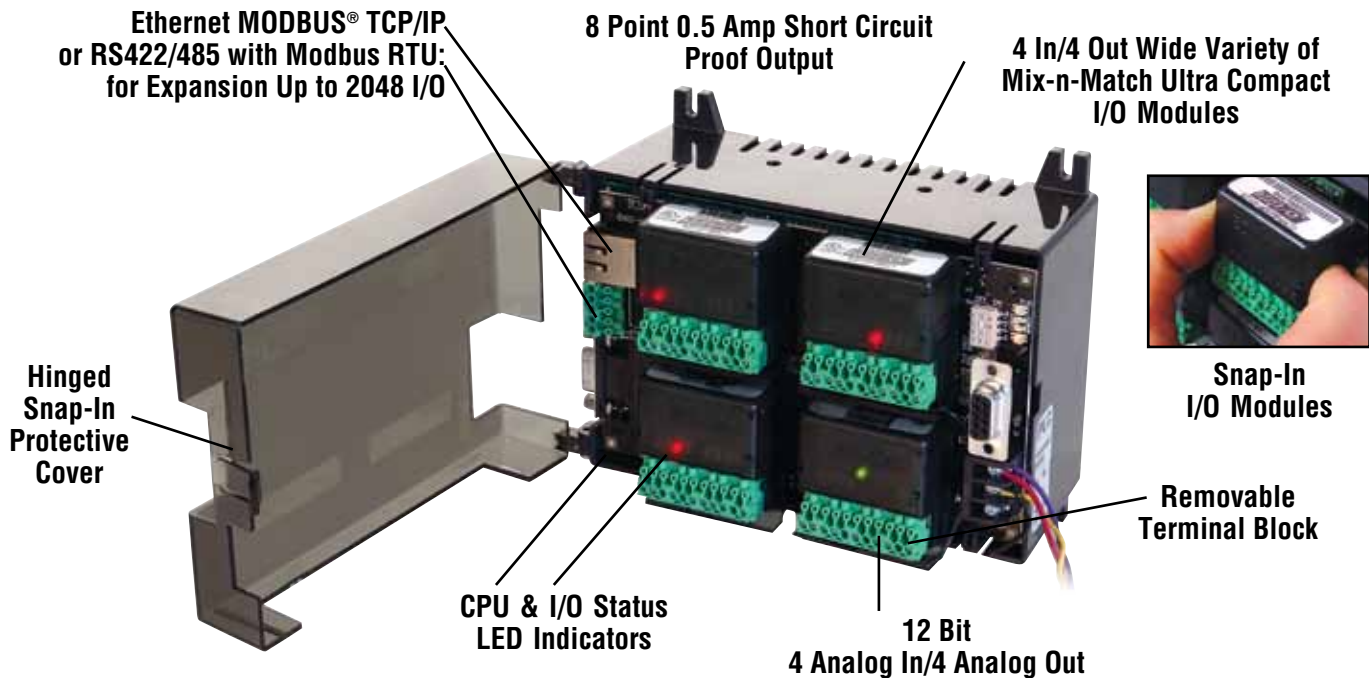
4pt 24 Vdc In/4pt 24 Vdc Fast Input with Interrupt

10 to 24 Vdc Sink or Source, 20 micro sec. for interrupt input

High Speed Counter Modules with PLS Outputs

260 KHz counters with 2 outputs each or 1 100 KHz counter with 4 outputs each

PARADIGM SHIFT IN MODULAR PLC CONSTRUCTION (5 PATENTS PENDING)



EZPLC with:

- 16 Digital In
- 8 Digital Out
- 4 Analog In
- 4 Analog Out
- Modular I/O w/ Modbus RTU

CPU Specs:

- 3 ms Scan time
- 60 micro sec. Interrupt time
- 64KB memory
- Up to 2000 I/O
- 8192 Registers
- 8 Autotuned PID Loops
- 32 Bit Floating Point Math
- Drag-n-Drop Ladder Programming

ADVANCED COMMUNICATION AS EASY AS 1-2-3

Ethernet TCP/IP

- MODBUS TCP/IP or EZ Protocol
- Used for Programming or HMI



2 Serial Comm. Ports

- RS232
- RS422/485

Use RS422/485 Port to Connect Directly to ASCII Devices

- ASCII In or Out
- Error Detection Bits
- Data Rates from 1200 - 38.4 KHz
- MODBUS RTU Option at No Cost
- Connect to Barcode Readers, Weigh Scales, or Embedded Controllers
- Simple Programming within Ladder Logic
- Time/Date Stamps in 3 Formats

Profibus Slave

- 244 Byte Data Exchange between Profibus Master and EZPLC



DeviceNet Slave

- 256 Byte Data Exchange between DeviceNet Master and EZPLC



Connect to EZMarquee on RS422/485 or Ethernet

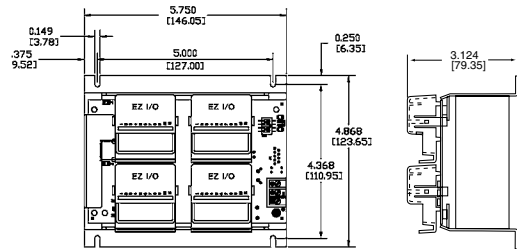


SPECIFICATIONS

Enclosure: NEMA 1 indoor
CPU Type: 40 MHz coldfire, 32 bit
Service Power: 24 Vdc (20 to 28 Vdc) or 110 Vac (95 to 125 Vac)
 10 to 15 W depending on model
Power Supply Capacity: 3.3 V at 1 A
CPU Power: 300 mA
I/O Module Power: 25 mA typical
DeviceNet/Profibus Interface Power: DN 50 mA, Profibus 100 mA
Agency Approval: UL, CUL, CE
Operating Temp: -10 to 60°C (14 to 140°F)
Storage Temp: -20 to 70°C (-4 to 158°F)
Humidity: 10 to 95% RH, non-condensing
Withstand Voltage: 1000 Vdc 1 minute
Vibration: 5 to 55 Hz, 2 G for 2 hours
Shock: 10 G up to 20 ms
Electrical Noise: NEMA ICS 2-230 showering arc
Real Time Clock: Built-in
Total Memory Available: 64 K ladder
Total No. of Registers: 8192 16 bit
Typical Scan Time: 3 ms (1K boolean)
Screw to Screw Interrupt Response Time: 60 μ seconds
Built-In Battery Backup: Lithium coin cell battery with 5 year life
LED Indicators: Input power, CPU status, (run, program and run/program), low battery and programming port indicators
I/O Supported: EZI/O

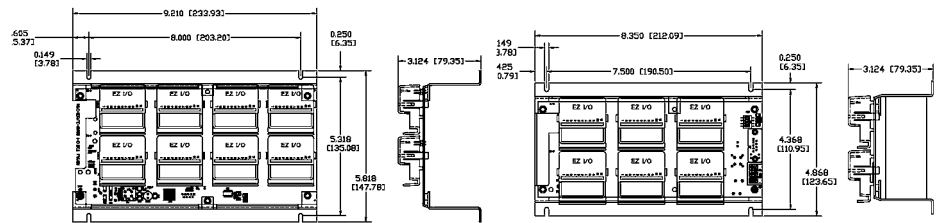
SOFTWARE AND ACCESSORIES

MODEL NO.	DESCRIPTION
EZPLC-EDIT	EZPLC programming software
EZPLC-DEVICENET	DeviceNet interface card for EZPLC
EZPLC-PROFIBUS	Profibus interface card for EZPLC
EZP-PGMCBL	RS232 programming cable
ELC-PS01	DIN rail power supply, 24V, 1 A
ELC-PS02	DIN rail power supply, 24V, 2 A



Product Dimensions (External):

32 I/O Base: 5.8 x 4.9 x 3.2"



Product Dimensions:

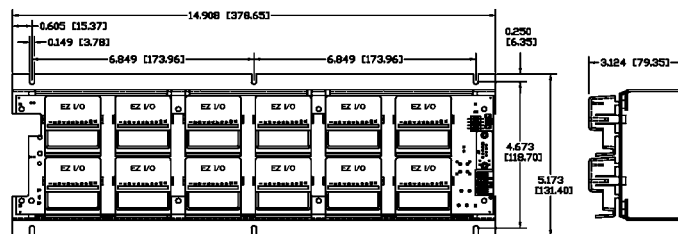
48 I/O Base: 8.4 x 4.9 x 3.2"

Product Dimensions:

64 I/O Base: 9.2 x 5.8 x 3.2"

Product Dimensions:

96 I/O Base: 14.9 x 5.2 x 3.2"



To Order Visit omega.com/ezserplc for Pricing and Details

MODEL NO.	DESCRIPTION
EZPLCJ-A-32	EZPLC base for 32 I/O (max), 110 Vac power
EZPLC-A-32	EZPLC base for 32 I/O, 110 Vac power
EZPLC-A-48	EZPLC base for 48 I/O, 110 Vac power
EZPLC-A-64	EZPLC base for 64 I/O, 110 Vac power
EZPLC-A-96	EZPLC base for 96 I/O, 110 Vac power
EZPLC-A-32E	EZPLC base with ethernet for 32 I/O, 110 Vac power
EZPLC-A-48E	EZPLC base with ethernet for 48 I/O, 110 Vac power
EZPLC-A-64E	EZPLC base with ethernet for 64 I/O, 110 Vac power
EZPLC-A-96E	EZPLC base with ethernet for 96 I/O, 110 Vac power
EZPLCJ-D-32	EZPLC base for 32 I/O (max), 24 Vdc power
EZPLC-D-32	EZPLC base for 32 I/O, 24 Vdc power
EZPLC-D-48	EZPLC base for 48 I/O, 24 Vdc power
EZPLC-D-64	EZPLC base for 64 I/O, 24 Vdc power
EZPLC-D-96	EZPLC base for 96 I/O, 24 Vdc power
EZPLC-D-32E	EZPLC base with ethernet for 32 I/O, 24 Vdc power
EZPLC-D-48E	EZPLC base with ethernet for 48 I/O, 24 Vdc power
EZPLC-D-64E	EZPLC base with ethernet for 64 I/O, 24 Vdc power
EZPLC-D-96E	EZPLC base with ethernet for 96 I/O, 24 Vdc power

Note: I/O modules not included.

Ordering Examples: **EZPLC-A-32**, EZPLC base for 32 I/O, 110 Vac power, **EZIO-4THIE**, I/O module, 4 x thermocouple inputs.

EZPLC-D-64E, EZPLC base with ethernet for 64 I/O, 24 Vdc power, **EZIO-4RLO**, I/O module, 4 relay out, **EZPLC-EDIT**, programming software, **EZP-PGMCBL**, programming cable.



EZPLC-D-32 shown smaller than actual size.

To Order Visit omega.com/ezserplc for Pricing and Details

EZ I/O MODULES

MODEL	DESCRIPTION
EZIO-4ACI4ACO	I/O module, 4 x 110 Vac IN, 4 x 110 Vac OUT
EZIO-4ACI4DCOP	I/O module, 4 x 110 Vac IN, 4 x 24 Vdc OUT (source)
EZIO-4ACI4RLO	I/O module, 4 x 110 Vac IN, 4 x relay OUT
EZIO-4ANI4ANOC	I/O module, 4 x analog IN, 4 x analog OUT (current)
EZIO-4ANI4ANOV	I/O module, 4 x analog IN, 4 x analog OUT (voltage)
EZIO-4DCI4ACO	I/O module, 4 x 24 Vdc IN, 4 x 110 Vac OUT
EZIO-4DCI4DCIF	I/O module, 4 x 24 Vdc IN, 4 x 24 Vdc IN (fast interrupt)
EZIO-4DCI4DCOP	I/O module, 4 x 24 Vdc IN, 4 x 24 Vdc OUT (source)
EZIO-4DCI4DCON	I/O module, 4 x 24 Vdc IN, 4 x 24 Vdc OUT (sink)
EZIO-4DCIP4RLO	I/O module, 4 x 24 Vdc IN, 4 x relay OUT
EZIO-4DCOP4ACO	I/O module, 4 x 24 Vdc OUT (source), 4 x 110 Vac OUT
EZIO-4HSCM1	I/O module, high speed counter, 1 x quad encoder IN, 4 x counter OUT
EZIO-4HSCM2	I/O module, high speed counter, 2 x quad encoder IN, 4 x counter OUT
EZIO-4RLO	I/O module, 4 x relay OUT
EZIO-4RTD	I/O module, 4 x RTD IN (Pt100)
EZIO-4RTD-PT1000	I/O module, 4 x RTD IN (Pt1000)
EZIO-4THIE	I/O module, 4 x thermocouple IN (Types J, K, S, T, E, R, B, N)
EZIO-8ACI	I/O module, 8 x 110 Vac IN
EZIO-8ACO	I/O module, 8 x 110 Vac OUT
EZIO-8ANIC	I/O module, 8 x analog IN (current)
EZIO-8ANIV	I/O module, 8 x analog IN (voltage)
EZIO-8DCI	I/O module, 8 x 24 Vdc IN
EZIO-8DCON	I/O module, 8 x 24 Vdc OUT (sink)
EZIO-8DCOP	I/O module, 8 x 24 Vdc OUT (source)
EZIO-8HSDCI	I/O module, 8 x 24 Vdc IN (fast)

EZ I/O ACCESSORIES

EZIO-SCDRV	Screwdriver, 2.5 mm (0.10") blade, for terminal blocks, pkg of 2
EZIO-TERM11	11-pin removable 3.5 mm (0.14") Phoenix terminal block, for EZ I/O modules
EZIO-TERM11CJC	11-pin removable 3.5 mm (0.14") Phoenix terminal block, for EZ I/O thermocouple module, with built-in cold junction compensator

Ordering Examples: **EZIO-8DCI**, I/O module, 8 x DC IN, **EZIO-4ANI4ANOV**, I/O module 4 x analog IN, 4 x analog OUT (voltage). **EZIO-4ACI4ACO**, I/O module, 4 x AC IN, 4 x AC OUT, **EZIO-4RTD**, I/O module, 4 x RTD IN.