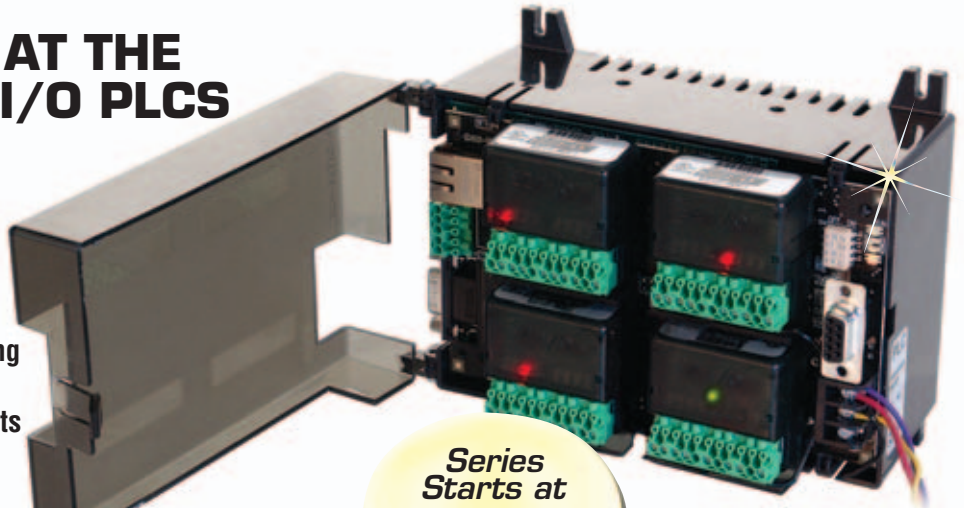


NEW

HIGH PERFORMANCE MODULAR **EZ/PLC™** 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
- \$31 for 8pt DC I/O
- \$153 for 8pt 12 bit Analog I/O
- Built-In Realtime Clock/Calendar
- Small Compact Foot-Print

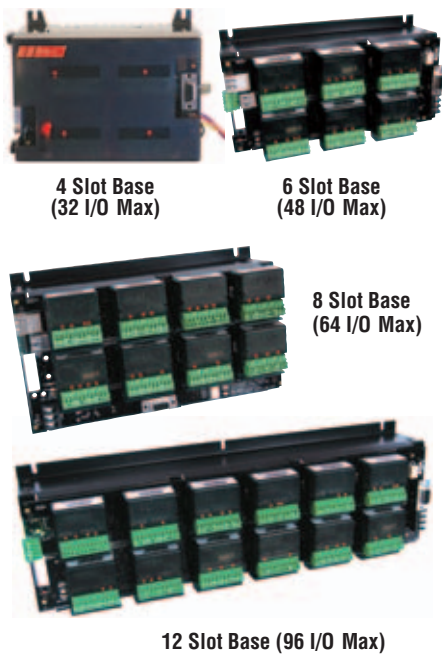


Series Starts at
\$170

Programming Software
\$76

EZPLC-D-32, \$170, 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

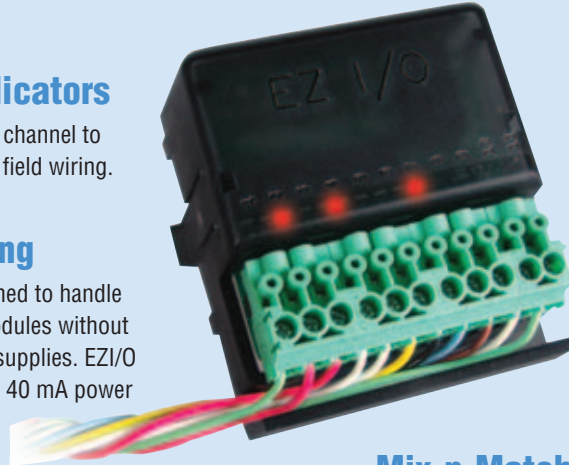
LED indicator lights on every channel to help troubleshoot and debug field wiring.

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.

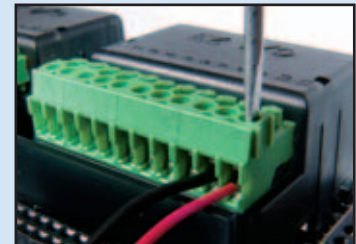
Wiring Duct for Routing Field Wires

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

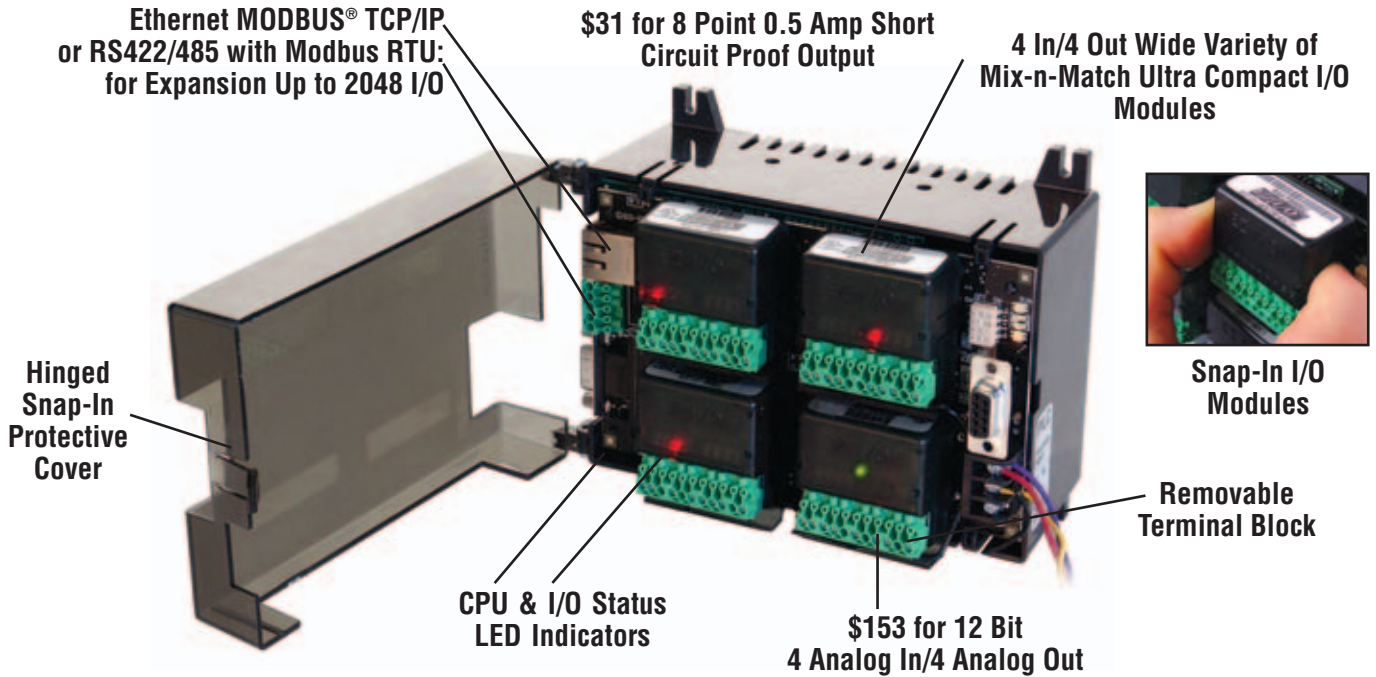
10 to 24 Vdc Sink or Source, 20 micro sec.
for interrupt input

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:

\$416

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

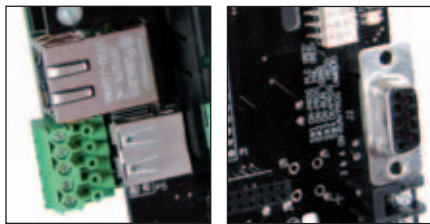
CPU Specs:

- 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 for \$199

- 244 Byte Data Exchange between Profibus Master and EZPLC

DeviceNet Slave for \$122

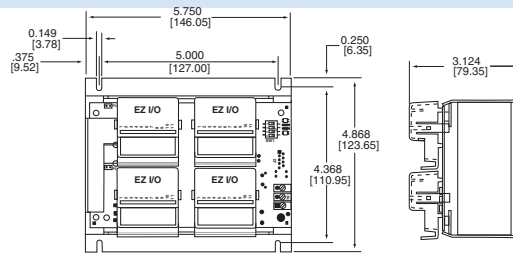
- 256 Byte Data Exchange between DeviceNet Master and EZPLC

Connect to EZMarquee on RS422/485 or Ethernet



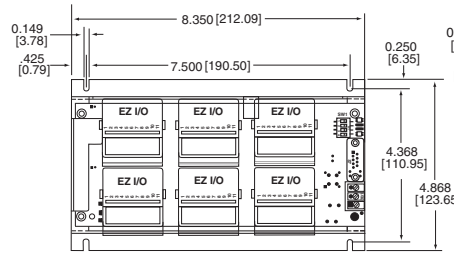


Product Dimensions (External):
32 I/O Base: 5.8 x 4.9 x 3.2"

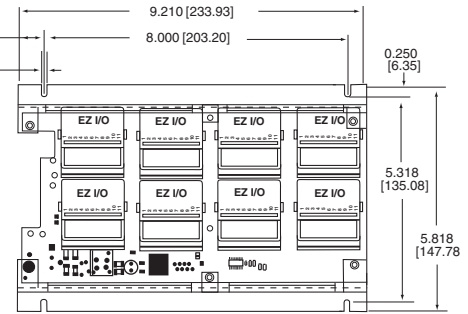


SPECIFICATIONS

- 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 min.
- 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:** EZ I/O

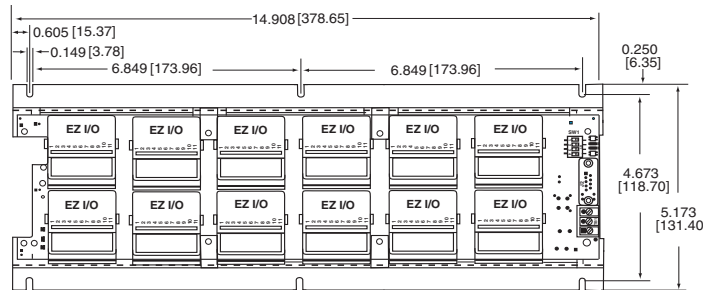


Product Dimensions:
48 I/O Base: 8.4 x 4.9 x 3.2"



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 (Specify Model Number)

MOST POPULAR MODELS HIGHLIGHTED!

MODEL NO.	PRICE	DESCRIPTION
EZPLCJ-A-32	\$164	EZPLC base for 32 I/O (max), 110 Vac power
EZPLC-A-32	199	EZPLC base for 32 I/O, 110 Vac power
EZPLC-A-48	259	EZPLC base for 48 I/O, 110 Vac power
EZPLC-A-64	290	EZPLC base for 64 I/O, 110 Vac power
EZPLC-A-96	338	EZPLC base for 96 I/O, 110 Vac power
EZPLC-A-32E	325	EZPLC base with ethernet for 32 I/O, 110 Vac power
EZPLC-A-48E	415	EZPLC base with ethernet for 48 I/O, 110 Vac power
EZPLC-A-64E	445	EZPLC base with ethernet for 64 I/O, 110 Vac power
EZPLC-A-96E	490	EZPLC base with ethernet for 96 I/O, 110 Vac power
EZPLCJ-D-32	114	EZPLC base for 32 I/O (max), 24 Vdc power
EZPLC-D-32	170	EZPLC base for 32 I/O, 24 Vdc power
EZPLC-D-48	231	EZPLC base for 48 I/O, 24 Vdc power
EZPLC-D-64	262	EZPLC base for 64 I/O, 24 Vdc power
EZPLC-D-96	293	EZPLC base for 96 I/O, 24 Vdc power
EZPLC-D-32E	324	EZPLC base with ethernet for 32 I/O, 24 Vdc power
EZPLC-D-48E	384	EZPLC base with ethernet for 48 I/O, 24 Vdc power
EZPLC-D-64E	415	EZPLC base with ethernet for 64 I/O, 24 Vdc power
EZPLC-D-96E	445	EZPLC base with ethernet for 96 I/O, 24 Vdc power

Note: I/O modules not included.

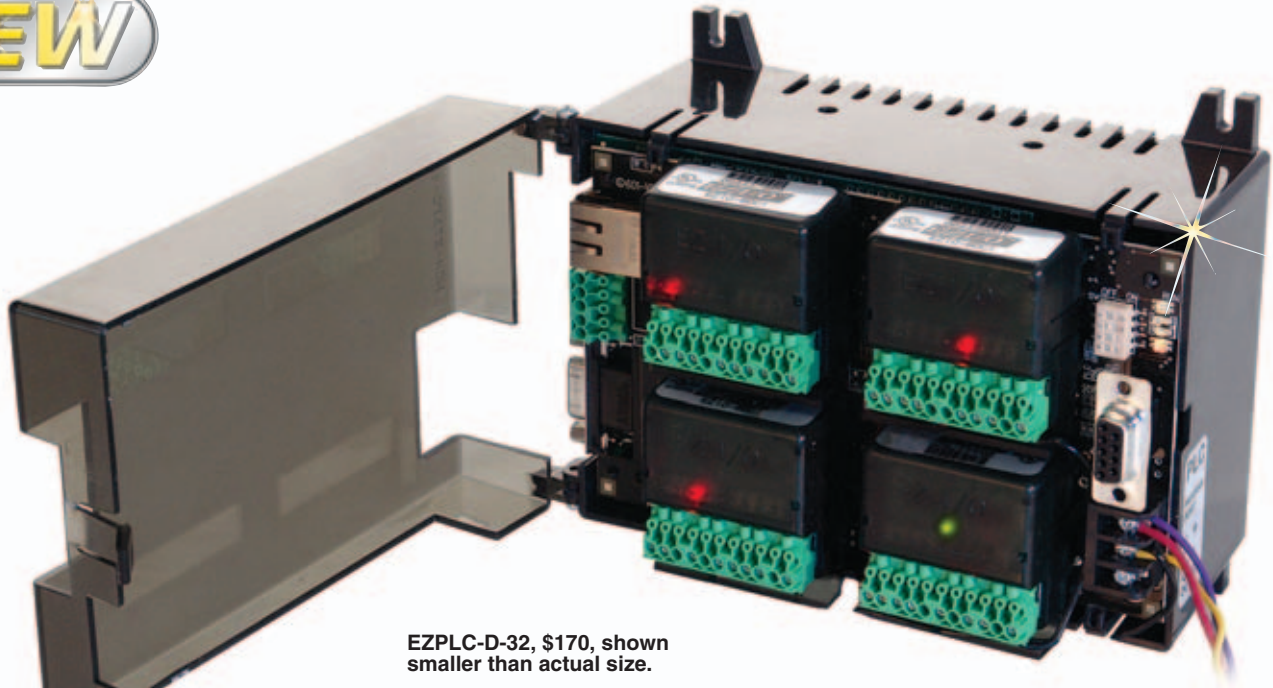
Ordering Examples: **EZPLC-A-32**, EZPLC base for 32 I/O, 110 Vac power, **EZIO-4THIE**, I/O module, 4 x thermocouple inputs, \$199 + 230 = **\$429**.

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, \$415 + 54 + 76 + 35 = **\$580**.

SOFTWARE AND ACCESSORIES

MODEL NO.	PRICE	DESCRIPTION
EZPLC-EDIT	\$76	EZPLC programming software
EZPLC-DEVICENET	122	DeviceNet interface card for EZPLC
EZPLC-PROFIBUS	199	Profibus interface card for EZPLC
EZP-PGMCBL	35	RS232 programming cable
ELC-PS01	36	DIN rail power supply, 24V, 1 A
ELC-PS02	71	DIN rail power supply, 24V, 2 A

NEW



EZPLC-D-32, \$170, shown smaller than actual size.

To Order (Specify Model Number)

MOST POPULAR MODELS HIGHLIGHTED!

EZ I/O MODULES		
MODEL	PRICE	DESCRIPTION
EZIO-4ACI4ACO	\$45	I/O module, 4 x 110 Vac IN, 4 x 110 Vac OUT
EZIO-4ACI4DCOP	45	I/O module, 4 x 110 Vac IN, 4 x 24 Vdc OUT (source)
EZIO-4ACI4RLO	60	I/O module, 4 x 110 Vac IN, 4 x relay OUT
EZIO-4ANI4ANOC	153	I/O module, 4 x analog IN, 4 x analog OUT (current)
EZIO-4ANI4ANOV	153	I/O module, 4 x analog IN, 4 x analog OUT (voltage)
EZIO-4DCI4ACO	45	I/O module, 4 x 24 Vdc IN, 4 x 110 Vac OUT
EZIO-4DCI4DCIF	38	I/O module, 4 x 24 Vdc IN, 4 x 24 Vdc IN (fast interrupt)
EZIO-4DCI4DCOP	31	I/O module, 4 x 24 Vdc IN, 4 x 24 Vdc OUT (source)
EZIO-4DCI4DCON	31	I/O module, 4 x 24 Vdc IN, 4 x 24 Vdc OUT (sink)
EZIO-4DCIP4RLO	60	I/O module, 4 x 24 Vdc IN, 4 x relay OUT
EZIO-4DCOP4ACO	45	I/O module, 4 x 24 Vdc OUT (source), 4 x 110 Vac OUT
EZIO-4HSCM1	153	I/O module, high speed counter, 1 x quad encoder IN, 4 x counter OUT
EZIO-4HSCM2	153	I/O module, high speed counter, 2 x quad encoder IN, 4 x counter OUT
EZIO-4RLO	54	I/O module, 4 x relay OUT
EZIO-4RTD	276	I/O module, 4 x RTD IN (Pt100)
EZIO-4RTD-PT1000	276	I/O module, 4 x RTD IN (Pt1000)
EZIO-4THIE	230	I/O module, 4 x thermocouple IN (Types J, K, S, T, E, R, B, N)
EZIO-8ACI	45	I/O module, 8 x 110 Vac IN
EZIO-8ACO	45	I/O module, 8 x 110 Vac OUT
EZIO-8ANIC	153	I/O module, 8 x analog IN (current)
EZIO-8ANIV	153	I/O module, 8 x analog IN (voltage)
EZIO-8DCI	31	I/O module, 8 x 24 Vdc IN
EZIO-8DCON	31	I/O module, 8 x 24 Vdc OUT (sink)
EZIO-8DCOP	31	I/O module, 8 x 24 Vdc OUT (source)
EZIO-8HSDCI	38	I/O module, 8 x 24 Vdc IN (fast)
EZ I/O ACCESSORIES		
EZIO-SCDRV	\$9	Screwdriver, 2.5 mm (0.10") blade, for terminal blocks, pkg of 2
EZIO-TERM11	9	11-pin removable 3.5 mm (0.14") Phoenix terminal block, for EZ I/O modules
EZIO-TERM11CJC	24	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), \$31 + 153 = \$184. EZIO-4ACI4ACO, I/O module, 4 x AC IN, 4 x AC OUT, EZIO-4RTD, I/O module, 4 x RTD IN, \$45 + 276 = \$321.

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