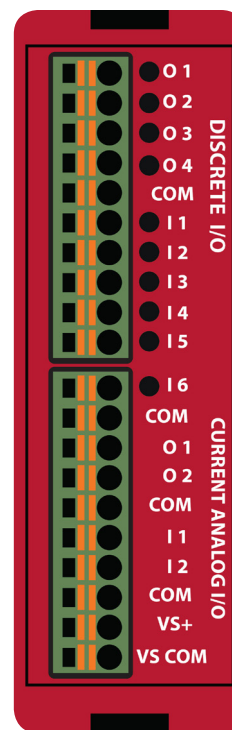




# Combo Discrete and Analog Current Module

The combo discrete and analog modules are ideal for small machine applications requiring less I/O. They give you the cost benefit you normally find it in fixed I/O PLCs, but also provide flexibility & expandability for your I/O needs as additional I/O modules can be added to the EZRack PLC.

**EZRPL-IO-6DI4DO-2ANI2ANOC**  
**\$169**



**EZRPL-IO-6DI4DO-2ANI2ANOC**

## Pinout Information

Pin	Function	Pin	Function
1	Digital Out - 1	11	Digital In - 6
2	Digital Out - 2	12	Common_In
3	Digital Out - 3	13	Analog Out - 1
4	Digital Out - 4	14	Analog Out - 2
5	Common	15	Common
6	Digital In - 1	16	Analog In - 1
7	Digital In - 2	17	Analog In - 2
8	Digital In - 3	18	Common
9	Digital In - 4	19	VS+
10	Digital In - 5	20	VS Common

## Digital Output Module Specifications

<b>Number of Outputs</b>	4 sourcing
<b>Output Voltage Range</b>	11-30 VDC
<b>Peak Voltage</b>	50 VDC
<b>Maximum Steady State Output Current</b>	0.1A per output, 0.4A max per module @ 50°C
<b>Maximum Leakage Current</b>	100µA @ 50 VDC @ 50°C
<b>ON Voltage Drop</b>	2 VDC @ 0.5A
<b>Maximum Inrush Current</b>	0.8A for 10ms
<b>OFF to ON Response</b>	< 2µs
<b>ON to OFF Response</b>	<10µs
<b>Status Indicators</b>	Red LED for each output
<b>+V Terminals &amp; Commons</b>	One V*, 3 Commons Separate
<b>Short Circuit Protection</b>	1 Amp per module, turns off outputs upon short circuit detection
<b>Base Power Required (5V)</b>	80mA, all outputs on
<b>Optical Isolation</b>	2500 Volt
<b>Wires</b>	14 to 24 AWG

## Digital Input Module Specifications

<b>Number of Inputs</b>	6
<b>Input Voltage Range</b>	11 - 30 VDC
<b>Peak Voltage</b>	40 VDC
<b>Input Current</b>	1.92 mA @ 12 VDC 4.0 mA @ 24 VDC
<b>Maximum Input Current</b>	5 mA @ 28 VDC
<b>Input Impedance</b>	5.6k @ 10-28 VDC
<b>ON Voltage Level</b>	> 10 VDC
<b>OFF Voltage Level</b>	< 2 VDC
<b>Min. ON Current</b>	1.5 mA
<b>Min. OFF Current</b>	0.2 mA
<b>OFF to ON Response</b>	2-4 ms, typical 3 ms
<b>ON to OFF Response</b>	2-4 ms, typical 3 ms
<b>Status Indicators</b>	Red LED for Source Green LED for Sinking
<b>Commons</b>	1 point (Common_In)
<b>Base Power Required (5V)</b>	Typical 30mA (all inputs on)
<b>Optical Isolation</b>	2500 Volt
<b>Wires</b>	14 to 24 AWG



# Combo Discrete and Analog Current Module

EZRack PLC

Analog Specifications		
Analog Current Input Specs	Number of Channels	2 Single Ended
	Input Range	4-20 mA
	Resolution	12 bit (1-4096)
	Step Response	1ms for 95% FS
	Crosstalk	1/2 count max, -80db
	Input Impedance	62.5Ω ± 0.1%
	Absolute Max Ratings	-30mA to 30mA
	Converter Type	Successive Approximation
	Linearity Error (end to end)	± 2 counts
	Input Stability	± 1 count
	Full-scale Calibration Error	± 10 counts @ 20mA
	Offset Calibration Error	± 5 counts
Max Inaccuracy	± 0.3% @ 25°C, ± 0.6% @ 60°C	
Accuracy vs. Temperature	± 50 ppm/°C typical	
Recommended Fuse	.032 Amp, series 217 fast acting	
Analog Current Output Specs	Number of Channels	2 single ended
	Output Range	4-20mA
	Output Type	Current Sourcing
	Resolution	12 bit (1-4096)
	Max. Loop Voltage	6 VDC
	Load/loop	0-300Ω
	Linearity Error (end to end)	± 2 counts
	Conversion Setting Time	100µs for FS
	Full-scale Calibration Error	± 12 counts
	Offset Calibration Error	± 6 counts
Max. Full-scale Inaccuracy (all errors included)	± 0.3%	
Wires	14 to 24 AWG	

Module Specifications	
Operating Temperature	-20 °C to 60 °C
Storage Temperature	-20 °C to 70 °C
Relative Humidity	5 to 95 %
Removable Terminal Block	300 Volt/8 Amp/ 14 AWG UL Rating
Vibration	MIL STD 810C 514.2
Shock	MIL STD 810C 516.2
Noise Immunity	NEMA ICS3-304

