EZRack PLC CPU Selection Guide and Specifications

EZRPL-CPU-1UE

EZRPL-CPU-2UE
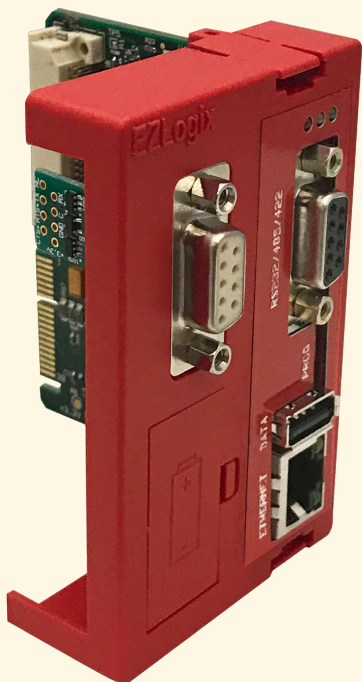
EZRack PLC CPU Specifications		
Feature	EZRPL-CPU-1UE	EZRPL-CPU-2UE
Total Memory (bytes)	37.02 MB	
Ladder Memory (instruction words)	500,000 instruction words	
Data Memory — Internal Bits	1024	
Data Memory — Internal Registers	16384	
Current Consumption	400mA	
Boolean execution/K	2.4 ms	
Interrupt Instruction Response Time	50 µs	
Programming Software for Windows	Free EZRack PLC Designer Pro	
Built-In communications ports	RS232/422/485 Ethernet 10/100Mbps	2 RS232/422/485 Ethernet 10/100Mbps
Program Memory	Flash	
Data Logging	Yes, USB (Up to 64 Gb)	
USB Programming	Yes	
PLC Simulation	Yes	
IIoT Ready	Yes, MQTT Protocol	
LED Indicators	Input Power, Program Run, Low Battery, USB Logging	
I/O Modules Supported	AC, DC, Analog, Relays with Removable Terminal Block & LED Indicator per I/O	
Operating Temperature	-20 to 60°C (-4 to 140° F)	
Storage Temperature	-40 to 85°C (-40 to 185° F)	
Max Number of Ethernet slaves per Channel	4	
Discrete I/O Module Point Density	8/12/16	
Slots per Base	3/5/7	
Number of instructions available	>70	
Control relays	131,072	
Timers	256 (default)	
Counters	256 (default)	
Immediate I/O	Yes	
Subroutines	Functions Block, up to memory limit	
Drum Sequencer	Yes, up to memory limit	
Loops	FOR/NEXT/JUMP loops	
Math	Yes, Advanced Function Blocks: Integer, Floating Point, Trignometric, Logical, Bitwise	
ASCII	Yes, Send/Receive	
PID Loop Control, Built In	Yes, Auto-tuned	
Time of Day Clock/Calendar	Yes RTC	
Run Time Edits	Yes	
Supports True Force	Yes	
Internal Diagnostics	Yes	
Password security	Yes	
Battery backup	Yes (Battery included)	
Shock	30g (IEC 60068-2-27)	
Vibration	2g @ 10...500 Hz (IEC 60068-2-6)	
Electrical Noise	Nema ICS 2-230 Showering arc; ANSI C37.90a SWC; Level C Chattering Relay Test	
ESD Immunity	6kV contact discharge (IEC 61000-4-2)	
Agency Approvals	CE, UL, cUL	