

# EZTouchRackPLC Selection Guide & Specifications

EZTouchRackPLC 7", 8" and 10" Model Specifications			
Part Number	EZ12-T7C-E-RPLC-3B \$899	EZ12-T8C-E-RPLC-5B \$1399	EZ12-T10C-E-RPLC-7B \$1699
Enclosure	NEMA 4, 4X (indoor)		
Display Type	7" TFT (65K Colors)	8" TFT (65K Colors)	10.4" TFT (65K Colors)
Display View Area	6.49"x3.9" (164.9 x 100mm)	6.05"x4.55" (153.7 x 115.8mm)	8.31"x6.22" (211.07 x 158mm)
Screen Pixels	800 x 480	800 x 600	800 x 600
Brightness/Life	400 nits/75,000 hours (Even at extreme Operating Temp.)		
Backlight	White LED Strips		
Touch Screen	Analog Resistive Touch Screen		
Service Power	24 VDC (20-30 VDC Operating Range), 1.5A switching supply recommended		
Operating Temperature	0-55°C (32 - 131°F)		
Power	Backlight OFF	18 Watts @ 24 VDC	
	Backlight ON	22 Watts @ 24 VDC	25 Watts @ 24 VDC
Storage Temp.	-25 to 65°C (-13 to 149°F)		
Humidity	10-95% RH, non-condensing		
Electrical Noise	NEMA ICS 2-230 showering arc ANSI C37.90a-1974 SWC Level C Chattering Relay Test		
Withstand Voltage	1000 VDC (1 Minute), between power supply input terminal and protective ground (FG)		
Insulation Res.	Over 20 MΩ , between power supply input terminal and protective ground (FG)		
Vibration	5 to 55Hz 2G for 2 hours in the X, Y and Z axes		
Shock	10G for under 12ms in the X, Y and Z axes		
# of Screens	Up to 999 limited by memory		
Real Time Clock	Built into Panel (PLC clock is still accessible if available)		
Screen Saver	Yes, Backlight off		
HMI Communication Ports	<b>Download/Programming port:</b> 9-pin D-Sub (female) - RS-232 <b>Ethernet (10/100 Base-T):</b> Programming & PLC Communication port <b>USB Type A:</b> Programming/Data Logging port <b>USB Type B:</b> Programming port <b>Micro SD slot:</b> Datalogging		
External Dimensions	6.15" x 8.05" x 5.31" (156.20 x 204.50 x 134.8 mm)	8.75" x 10.90" x 5.37" (222.25 x 276.76 x 136.5 mm)	10.63" x 13.58" x 5.32" (269.90 x 345.1 x 135.1 mm)
Weight	4 lbs	6 lbs	8 lbs

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Total Memory (bytes)	37.02 MB		
Ladder Memory (instruction words)	500,000 instruction words		
Data Memory	Internal Bits	1024	
	Internal Registers	16384	
Current Consumption	1.5 A	1.8 A	2.2 A
Boolean execution/K	2.4 ms		
Interrupt Instruction Response Time	50 µs		
Programming Software for Windows	EZTouchRackPLC Designer Pro		
PLC communications ports	Option 1: RS232/422/485 Ethernet 10/100Mbps Option 2: 2 RS232/422/485 Ethernet 10/100Mbps		
Program Memory	Flash		
Data Logging	Yes, USB (Up to 64 Gb)		
USB Programming	Yes, through HMI USB		
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 Slot	5 Slot	7 Slot
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, Trigonometric, 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)		