

# EZ7Touch RackPLC Selection Guide & Specifications

EZ7Touch RackPLC 7", 8", 10" and 12" Model Specifications				
Part Number	EZ7DT-T7C-E-RPLC-3B \$1099	EZ7DT-T8C-E-RPLC-5B \$1599 EZ7DT-T8C-EH-RPLC-5B \$2099	EZ7DT-T10C-E-RPLC-7B \$1899 EZ7DT-T10C-EH-RPLC-7B \$2399	EZ7DT-T12C-E-RPLC-7B \$1999 EZ7DT-T12C-EH-RPLC-7B \$2499
<b>Enclosure</b>	Metal front bezel connects to back-end through HDMI cable, NEMA 4, 4X Class I Div II			
<b>Display Type</b>	7" TFT (65K Colors)	8" TFT (65K Colors)	10.4" TFT (65K Colors)	12.1" TFT (65K Colors)
<b>Display View Area</b>	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)	9.68" x 7.26" (246 x 184.5 mm)
<b>Screen Pixels</b>	800 x 480	800 x 600	800 x 600	800 x 600
<b>Brightness/Life</b>	400 nits/75,000 hours (Even at extreme Operating Temp.)			300 nits/50,000 hours @ 50°C
<b>Backlight</b>	White LED Strips			
<b>Touch Screen</b>	Analog Resistive Touch Screen			
<b>Service Power</b>	24 VDC (20-30 VDC Operating Range), 2.5A switching supply recommended			
<b>Operating Temperature</b>	0-55°C (32 - 131°F)			
<b>Power</b>	Backlight OFF	18 Watts @ 24 VDC		
	Backlight ON	22 Watts @ 24 VDC	25 Watts @ 24 VDC	28 Watts @ 24 VDC
<b>Storage Temp.</b>	-25 to 65°C (-13 to 149°F)			
<b>Humidity</b>	10-95% RH, non-condensing			
<b>Electrical Noise</b>	NEMA ICS 2-230 showering arc ANSI C37.90a-1974 SWC Level C Chattering Relay Test			
<b>Withstand Voltage</b>	1000 VDC (1 Minute), between power supply input terminal and protective ground (FG)			
<b>Insulation Res.</b>	Over 20 MΩ , between power supply input terminal and protective ground (FG)			
<b>Vibration</b>	5 to 55Hz 2G for 2 hours in the X, Y and Z axes			
<b>Shock</b>	10G for under 12ms in the X, Y and Z axes			
<b># of Screens</b>	Up to 999 limited by memory			
<b>Real Time Clock</b>	Built into Panel (PLC clock is still accessible if available)			
<b>Screen Saver</b>	Yes, Backlight off			
<b>HMI Communication Ports</b>	<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			
<b>External Dimensions</b>	8.66" x 5.91" x 6.13" (220 x 150 x 155.7 mm)	10.61" x 8.52" x 6.13" (269.6 x 216.4 x 155.7 mm)	12" x 9.50" x 6.13" (304.8 x 241.3 x 155.7 mm)	13.19" x 10.63" x 6.13" (335 x 270 x 155.7 mm)
<b>Weight</b>	5 lbs	7 lbs	9 lbs	14 lbs

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EZ7Touch RackPLC CPU Specifications			
Part Number	EZ12-T7C-E-RPLC-3B \$899	EZ12-T8C-E-RPLC-5B \$1399	EZ12-T10C-E-RPLC-7B \$1699
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)		