

EZ7Touch RackPLC Selection Guide & Specifications

| EZ7Touch RackPLC 7", 8", 10" and 12" Model Specifications | | | | |
|---|--|---|---|---|
| Part Number | EZ7DT-T7C-E-RPLC-3B \$1299 | EZ7DT-T8C-E-RPLC-5B \$1899 EZ7DT-T8C-EH-RPLC-5B \$2599 | EZ7DT-T10C-E-RPLC-7B \$1999 EZ7DT-T10C-EH-RPLC-7B \$2799 | EZ7DT-T12C-E-RPLC-7B \$2499 EZ7DT-T12C-EH-RPLC-7B \$2499 |
| Enclosure | Metal front bezel connects to back-end through HDMI cable, NEMA 4, 4X Class I Div II | | | |
| Display Type | 7" TFT (65K Colors) | 8" TFT (65K Colors) | 10.4" TFT (65K Colors) | 12.1" 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) | 9.68" x 7.26" (246 x 184.5 mm) |
| Screen Pixels | 800 x 480 | 800 x 600 | 800 x 600 | 800 x 600 |
| Brightness/Life | 400 nits/75,000 hours (Even at extreme Operating Temp.) | | | 300 nits/50,000 hours @ 50°C |
| Backlight | White LED Strips | | | |
| Touch Screen | Analog Resistive Touch Screen | | | |
| Service Power | 24 VDC (20-30 VDC Operating Range), 2.5A 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 | 28 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 | Download/Programming port: 9-pin D-Sub (female) - RS-232 Ethernet (10/100 Base-T): Programming & PLC Communication port USB Type A: Programming/Data Logging port USB Type B: Programming port Micro SD slot: Datalogging | | | |
| External Dimensions | 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) |
| Weight | 5 lbs | 7 lbs | 9 lbs | 14 lbs |

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| EZ7Touch RackPLC CPU Specifications | | | |
|---|--|------------------------------|-------------------------------|
| Part Number | EZ12-T7C-E-RPLC-3B \$1099 | EZ12-T8C-E-RPLC-5B \$1699 | EZ12-T10C-E-RPLC-7B \$1999 |
| 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) | | |