P3-550E \$750.00

The P3-550E is a high-performance CPU having multiple communication ports which support USB, Ethernet and serial devices. Designed with a 4-line x 10-character LCD and remote I/O capability.

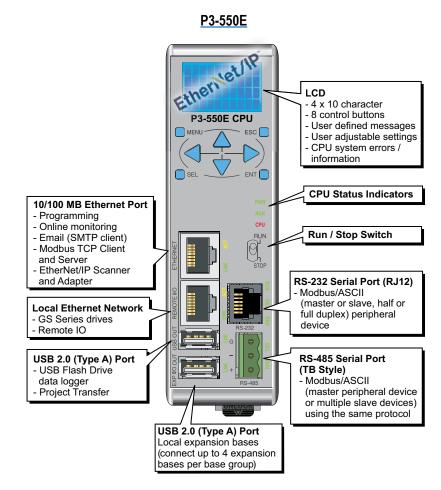
Each Productivity3000® system requires one CPU module to be mounted in the controller slot in the initial base system of the local base group. The CPU stores and executes the user's program.

The system can be expanded with the <u>P3-RX</u> or <u>P3-EX</u> module when using the <u>P3-550E</u> CPU. The local, expansion, and remote I/O are assigned as preconfigured or user-defined tag names that can be easily referenced in the ladder logic program.



NOTE: A replacement LCD display is available for the P3-550E. Order Part number P3-LCD.

P3-LCD \$75.00



CPU Status Indicators				
PWR	Green LED is illuminated when power is on			
RUN	Green LED is illuminated when CPU is in RUN mode			
СРИ	Red LED is illuminated during power on reset, power down, or watch-dog time-out.			



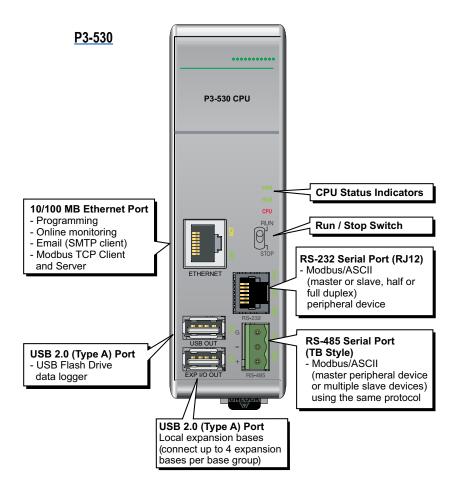
CPU Run/Stop Switch		
RUN position	Executes user program, run-time edits possible	
STOP position	Does not execute user program, normal program load position	

P3-530 \$735.00

The P3-530 Basic is a high-performance CPU. Several communications ports support Ethernet and serial devices.

Each Productivity3000® system requires one CPU module mounted in the controller slot in the first base of the local base group. The CPU stores and executes the user's program.

The system can be expanded with the <u>P3-EX</u> module when using the <u>P3-530</u> CPU. The local I/O are assigned preconfigured or user-defined tagnames which can be easily referenced in the ladder logic program.



CPU Status Indicators			
PWR	Green LED is illuminated when power is on		
RUN	Green LED is illuminated when CPU is in RUN mode		
CPU	Red LED is illuminated during power on reset, power down, or watch-dog time-out.		



CPU Run/Stop Switch		
RUN position	Executes user program, run-time edits possible	
STOP position	Does not execute user program, normal program load position	

Specifications (see notes below)

CPU Specifications	P3-550E	P3-530		
User Memory	50MB (Includes program, data and documentation)	25MB (Includes program, data and documentation)		
Memory Type	Flash and Battery Backed RAM			
Retentive Memory	492K			
Scan Time	600μs (3K Boolean, 1K I/O)			
Display	LCD, 4x10 characters, backlit, 8 control buttons; LCD characters are 5x7 with a dot pitch of 0.45 mm; 2.25 mm x 3.15 mm	N/A		
	N/A			
Communications	ETHERNET: (10/100 Mbps Ethernet) Programming, Monitoring, Debug, Firmware, Email SMTP Client, Modbus TCP Client (32 slaves) and Server (32 masters), EtherNet/IP Scanner (128 Scanner connections) and Adapter (16 connections)	ETHERNET: (10/100 Mbps Ethernet) Programming, Monitoring, Debug, Firmware, Email SMTP Client, Modbus TCP Client (32 slaves) and Server (32 masters)		
	REMOTE I/O: (10/100 Mbps Ethernet) 16 RX Remote Base Groups, and 32 GS EDRV100 (GS Drives)	N/A		
	USB OUT: (2.0) Data Logging and Project Transfer using pen drive (USB-FLASH recommended) USB OUT: (2.0) Data Logging using pen drive (USB-FLASH recommended)			
	EXP I/O OUT: (2.0 Proprietary) 4 P3-EX Local Expansion Bases			
	RS-232: (RJ12, 1200–115.2k baud) Modbus RTU, ASCII full or half duplex			
	RS-485: Removable Terminal Included, (1200–115.2k baud) ASCII, Modbus			
Hardware Limits of System	17 Base Groups 1 Local P3-550E + 16 Remote (P3-RX) 5 Bases per Base Group 1 P3-550E or P3-RX + 4 Expansion (P3-EX) 85 Bases Total 1 (CPU) + 16 (Remote) + 68 (Expansion) 59,840 Hardware I/O Points (All 64-point I/O Modules) 32 GS Series Drives as Remote I/O	5 Bases Total 1 <u>P3-530</u> + 4 Expansion (<u>P3-EX</u>) 3,520 Hardware I/O Points (All 64-point I/O Modules)		
Instruction Types	Application Functions Data Handling Array Functions Drum Sequencers Counters/Timers Math Functions Communications PID	Program Control Coils String Functions High Speed I/O System Functions Contacts		
Real Time Clock Accuracy	±5s per day typical at 25°C ambient: 1sec/day* ±15s per day maximum at 60°C ambient:2sec/day*	±5s per day typical at 25°C ±15s per day maximum at 60°C		

^{*}Revision B and higher.

IMPORTANT!



Hot-Swapping Information

Note: This device cannot be Hot Swapped.



NOTES

- 1. To utilize the 492K of retentive memory in the $\underline{P3-550E}$ rev. D or later CPU, you must use Productivity3000® software version 1.0.7.XX and firmware version 1.1.13.XX or later.
- 2. When using the P3-530 CPU, you must use Productivity3000 software version 1.0.7.XX and firmware version 1.1.13.XX or later.
- 3. For EtherNet/IP support in the P3-550E CPU, you must use ProductivitySuite software version 2.2.0.XX or later.

General Specifications				
Operating Temperature 0°C-60°C (32°F-140°F)				
Storage Temperature	-20°C-70°C (-4°F-158°F)			
Humidity	5 to 95% (non-condensing)			
Environmental Air	No corrosive gases permitted			
Vibration	IEC60068-2-6 (Test Fc)			
Shock	IEC60068-2-27 (Test Ea)			
Heat Dissipation	7W			
Enclosure Type	Open equipment			
Module Location	Controller slot in the local base in a Productivity3000 system			
Weight	260g (9oz)			
Agency Approvals	UL508 file E157382, Canada & USA UL1604 file E200031, Canada & USA CE (EN61131-2*) This equipment is suitable for use in Class 1, Division 2, Groups A, B, C and D or non-hazardous locations only.			

^{*}Meets EMC and Safety requirements. See the Declaration of Conformity for details.



NOTE: When using the P3-550E CPU, you must use Productivity Suite software version 2.2.0.XX or later.

P3-550E/P3-530 Product Comparison				
CPU	<u>P3-550E</u>	<u>P3-530</u>		
LCD Display				
USB Prog/Mon Port				
Ethernet Port		()		
EtherNet/IP Protocol				
Remote Expansion Port				
USB Memory Stick Port				
USB Local Expansion Port				
RS-232 RJ12 Port				
RS-485 Port				
User Memory	50 MB	25 MB		

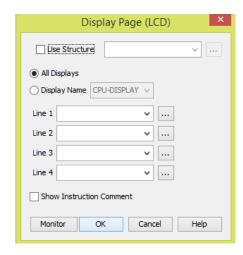
LCD Message Display P3-550E

The <u>P3-550E</u> CPU incorporates a 4-line x 10-character LCD Display for system alarms and information or for displaying user-defined messages.

LCD control buttons located beneath the display allow the user to navigate through a menu, and arrow buttons allow for configuration of time and date settings.

For user-defined messages, the display is configured using the Productivity Suite Programming Software. An LCD Page instruction allows the user to program text into user-defined tags and display the messages based on the ladder execution.





CPU Installation



Step One:

Locate the two sockets next to the power supply; the CPU will be inserted into this location.



Step Two:

Insert the CPU at a 45° angle into the notch located at the top of the base and rotate down until seated.

Step Three:

Snap retaining tab into the locked position.

WARNING!: EXPLOSION HAZARD – DO NOT CONNECT OR DISCONNECT CONNECTORS OR OPERATE SWITCHES WHILE CIRCUIT IS LIVE UNLESS THE AREA IS KNOWN TO BE NON-HAZARDOUS. DO NOT HOT SWAP.

Battery (Optional)

A battery is included with some CPUs, but is not installed. The battery can be installed to retain the Time and Date along with any Tagname values that are set up as retentive.

The battery is not needed for program backup.



