P3-622 \$550.00

The <u>P3-622</u> is a high-performance CPU with communications ports that support USB, Ethernet, and serial devices. The <u>P3-622</u> also includes a 4-line x 10-character LCD local display and a USB programming port.

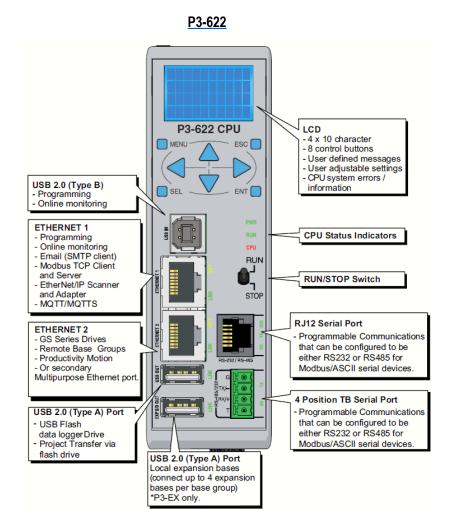
Each Productivity3000® system requires one CPU module to be mounted in the controller slot in the local base of the initial base system. The CPU stores and executes the user's program.

The system can be expanded with the P3-RX or P3-EX module when using a P3-622 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 P3-622 Order Part number P3-LCD.

P3-LCD \$83.00



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 or power down.	



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

P3-550E \$750.00

The <u>P3-550E</u> 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.

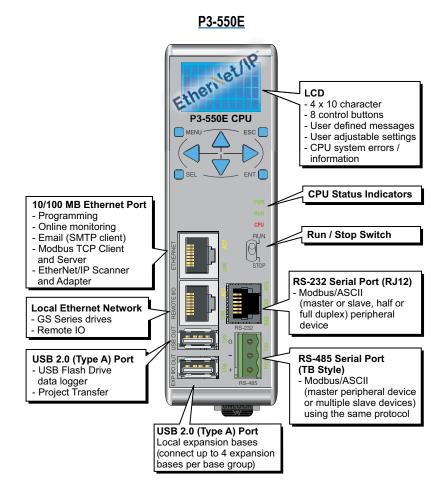
Each Productivity3000® system requires one CPU module to be mounted in the controller slot in the initial base system of the local base group. The CPU stores and executes the user's program.

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 \$83.00



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.	



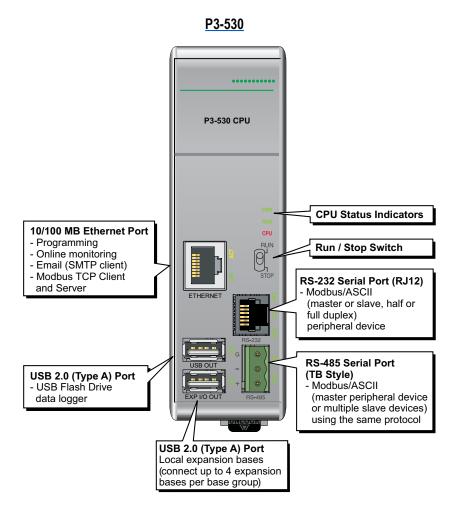
CPU Run/Stop Switch		
RUN position	Executes user program, run-time edits possible	
STOP position	Does not execute user program, normal program load position	

P3-530 \$735.00

The <u>P3-LCD</u> 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	P3-622	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	2.4ms (3K Boolean, 1K I/O)	600µs (3K Boolean, 1K I/O)		
Display	LCD, 4x10 characters, l	backlit, 8 control buttons	N/A	
	ETHERNET1: (10/100 Mbps Ethernet) Programming, Monitoring, Debug, Firmware, Email SMTP Client, MQTT/MQTTS, 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), 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)	
Communications	ETHERNET2*: (10/100 Mbps Ethernet) 32 GS Drives, 16 Remote Base Groups, 4 ProtosX TCP Couplers, 4 PS-AMC modules.	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)	
	USB IN: Programming, Monitoring, Debug, Firmware	N/A		
	EXP I	O OUT: (2.0 Proprietary) 4 P3-EX Local expansion bases		
	RJ12: RS-232/485 Programmable	RS-232: (RJ12, 1200–115.2k baud) Modbus RTU, ASCII full or half duplex		
	TB (4-pin): RS485/232 programmable removable terminal block	RS-485: Removable terminal block included, (1200–115.2k baud) ASCII, Modbus		
(P3-RS / P3-RX) 5 Bases per Base Group 1 P3-622, P3-RS 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) 1 1 1 1 1 1 1 1 1		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 Motion Control (Except Contacts	<u>P3-530</u>)	
Real Time Clock Accuracy	±1s per day typical at 25°C ambient ±2s per day maximum at 60°C ambient	±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	

^{*} The 'ETHERNET 2' port can be configured as 'Default (Remote I/O)' or 'User Defined'. If 'User Defined' is selected this port will have the same specification as the 'ETHERNET1' port with the exception that this port does not have Default Gateway or DNS capability.

** Revision B and higher.

IMPORTANT!



Hot-Swapping Information

Note: This device cannot be Hot Swapped.



NOTES:

1. For EtherNet/IP support in the P3-550E CPU, use ProductivitySuite software version 2.2.0.XX or later.

General Specifications				
Parameter	P3-622	P3-550E	P3-530	
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)			
Altitude		2,000 meters max.		
Pollution Degree	2			
Environmental Air	No corrosive gases permitted			
Vibration	IEC60068-2-6 (Test Fc)			
Shock	IEC60068-2-27 (Test Ea)			
Heat Dissipation	2297mW 7W			
Overvoltage Category	ll ll			
Enclosure Type	Open equipment			
Module Location	Controller slot in the local base in a Productivity3000 system			
Weight	235g (8.28 oz)	260 (9oz)	260g (9oz)	
Agency Approvals	UL61010 and UL 61010-2-201 file E139594, Canada & USA CE (EN61131-2 EMC, EN 61010-1 and EN 61010-2-201 Safety)*	UL1604 file E200031, Canada & USA CE (EN61131-2)*		

 $^{{}^\}star \! Meets$ EMC and Safety requirements. See the Declaration of Conformity for details.



NOTE: When using the <u>P3-550E</u> CPU, use Productivity Suite software version 2.2.0.XX or later.

NOTE: P3-622 requires ProductivitySuite software version 4.4.0.x or later.

P3000 CPU Modules Comparison			
CPU	<u>P3-622</u>	<u>P3-550E</u>	P3-530
LCD Display			
USB Prog/Mon Port			
Ethernet Port			
EtherNet/IP Protocol	3		
Remote Expansion Port			
USB Memory Stick Port			
USB Local Expansion Port	(3)		
RS-232 RJ12 Port		$egin{array}{c} egin{array}{c} \egin{array}{c} \egin{array}$	
RS-485 Port			
User Memory	50MB	50 MB	25 MB

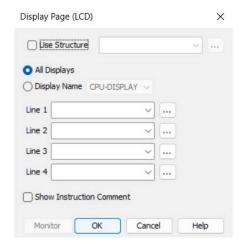
LCD Message Display

Both the <u>P3-622</u> and <u>P3-550E</u> CPU incorporate 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.





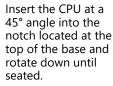
CPU Installation



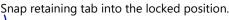
Step One:

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

Step Two: Insert the CPU at



Step Three:



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.

Battery (Optional)	
	Coin type, 3.0V Lithium battery, 560mA battery number CR2354

