



Specify your ZIPLink system

Use the Compatibility Matrix table below.

Step 1	Locate the I/O module part number.
Step 2	Locate Connector Module Type. (Feedthrough Module, Fuse Module, etc...)
Step 3	Select the cable length by replacing the # symbol with: Blank = 0.5m, -1 = 1.0m, -2 = 2.0m ¹

¹Note: Cable part number denotes compatibility between Connector Module and I/O Modules.

Productivity3000 ZIPLink Wiring System Compatibility Matrix								
Step 2: Connector Module Type		Feedthrough Modules		Fuse Modules		Relay Module	Sensor Input Mod.	Pigtail Cable
Step 1: I/O Module	Number of Terminals	ZL-RTB20	ZL-RTB40	ZL-RFU20	ZL-RFU40	ZL-RRL16-24	ZL-LTB16-24	
Step 3: Cables								
Inputs								
P3-08NAS	20	ZL-P3-CBL20#						ZL-P3-CBL20-#P
P3-08ND3S	20	ZL-P3-CBL20#						ZL-P3-CBL20-#P
P3-16NA	20	ZL-P3-CBL20L#						ZL-P3-CBL20-#P
P3-16ND3	20	ZL-P3-CBL20L#						ZL-P3-CBL20-#P
P3-32ND3	40		ZL-CBL40#				ZL-P3-CBL40#	
P3-64ND3*	40		ZL-CBL40#				ZL-P3-CBL40#	
Outputs								
P3-08TAS	20	ZL-P3-CBL20#						ZL-P3-CBL20-#P
P3-08TD1S	20	ZL-P3-CBL20L#						ZL-P3-CBL20-#P
P3-08TD2S	20	ZL-P3-CBL20L#						ZL-P3-CBL20-#P
P3-08TRS	20	ZL-P3-CBL20#						ZL-P3-CBL20-#P
P3-16TA	20	ZL-P3-CBL20#		ZL-P3-CBL20L#				ZL-P3-CBL20-#P
P3-16TD1	20	ZL-P3-CBL20#		ZL-P3-CBL20#		ZL-P3-CBL20#		ZL-P3-CBL20-#P
P3-16TD2	20	ZL-P3-CBL20#		ZL-P3-CBL20#				ZL-P3-CBL20-#P
P3-16TR	20	ZL-P3-CBL20#		ZL-P3-CBL20#				ZL-P3-CBL20-#P
P3-08TRS-1***	20	ZL-P3-CBL20#						ZL-P3-CBL20-#P
P3-32TD1	40		ZL-CBL40#		ZL-CBL40#			
P3-32TD2	40		ZL-CBL40#		ZL-CBL40#			
P3-64TD1*	40		ZL-CBL40#		ZL-CBL40#			
P3-64TD2*	40		ZL-CBL40#		ZL-CBL40#			
Analog In								
P3-04ADS	20	ZL-P3-CBL20L#						ZL-P3-CBL20-#P
P3-08AD	20	ZL-P3-CBL20L#						ZL-P3-CBL20-#P
P3-16AD-1	20	ZL-P3-CBL20L#						ZL-P3-CBL20-#P
P3-16AD-2	20	ZL-P3-CBL20L#						ZL-P3-CBL20-#P
P3-08RTD**	Matched Only							
P3-08THM**	T/C Wire Only							
Analog Out								
P3-04DA	20	ZL-P3-CBL20L#						ZL-P3-CBL20-#P
P3-08DA-1	20	ZL-P3-CBL20L#						ZL-P3-CBL20-#P
P3-08DA-2	20	ZL-P3-CBL20L#						ZL-P3-CBL20-#P
P3-06DAS-1	20	ZL-P3-CBL20L#						ZL-P3-CBL20-#P
P3-06DAS-2	20	ZL-P3-CBL20L#						ZL-P3-CBL20-#P
P3-16DA-1	20	ZL-P3-CBL20L#						ZL-P3-CBL20-#P
P3-16DA-2	20	ZL-P3-CBL20L#						ZL-P3-CBL20-#P
Analog Combo								
P3-8AD4DA-1	20	ZL-P3-CBL20L#						ZL-P3-CBL20-#P
P3-8AD4DA-2	20	ZL-P3-CBL20L#						ZL-P3-CBL20-#P

*The P3-64ND3, P3-64TD1, and P3-64TD2 modules have two 32-point connectors and require 2 ZIPLink cables and 2 ZIPLink connector modules.

**These modules are not supported by the ZIPLink wiring system. Removable terminal block P3-RTB included.

***The P3-08TRS-1 output module is derated, not to exceed 2A per point maximum when used with the ZIPLink wiring system.

I/O Modules

A variety of discrete and analog I/O modules are available for use in local, expansion, and remote I/O bases. Specifications for each module are on the following pages.

A filler module is available for unused I/O module slots (part number P3-FILL).



Discrete Input Modules

Productivity3000 Discrete Input Modules			
Part Number	Number of Inputs	Description	Price
P3-16SIM	16	Input Simulator Module	<--->
P3-08ND3S	8	Isolated Sinking/Sourcing DC Input	<--->
P3-16ND3	16	Sinking/Sourcing DC Input	<--->
P3-32ND3*	32	Sinking/Sourcing DC Input	<--->
P3-64ND3*	64	Sinking/Sourcing DC Input	<--->
P3-08NAS	8	Isolated AC Input	<--->
P3-16NA	16	AC Input	<--->

*ZIPLink required.

Analog I/O Modules

Productivity3000 Analog Input Modules			
Part Number	Number of Channels	Description	Price
P3-04ADS	4	Isolated Analog Input	<--->
P3-08AD	8	Analog Input	<--->
P3-16AD-1	16	Analog Input (Current)	<--->
P3-16AD-2	16	Analog Input (Voltage)	<--->
P3-08RTD	8	Analog RTD Input	<--->
P3-08THM	8	Analog Thermocouple Input	<--->

Productivity3000 Analog Output Modules			
Part Number	Number of Channels	Description	Price
P3-04DA	4	Analog Output	<--->
P3-08DA-1	8	Analog Output (Current)	<--->
P3-08DA-2	8	Analog Output (Voltage)	<--->
P3-06DAS-1	6	Isolated Analog Output (Current)	<--->
P3-06DAS-2	6	Isolated Analog Output (Voltage)	<--->
P3-16DA-1	16	Analog Output (Current)	<--->
P3-16DA-2	16	Analog Output (Voltage)	<--->

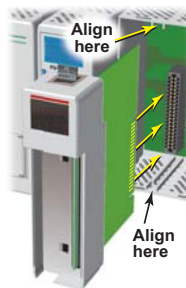
Productivity3000 Analog Input/Output Modules			
Part Number	Number of Channels	Description	Price
P3-8AD4DA-1	8/4	Analog Input/Output (Current)	<--->
P3-8AD4DA-2	8/4	Analog Input/Output (Voltage)	<--->

Discrete Output Modules

Productivity3000 Discrete Output Modules			
Part Number	Number of Outputs	Description	Price
P3-08TD1S	8	Isolated Sinking Output	<--->
P3-08TD2S	8	Isolated Sourcing Output	<--->
P3-16TD1	16	Sinking Output	<--->
P3-16TD2	16	Sourcing Output	<--->
P3-32TD1*	32	Sinking Output	<--->
P3-32TD2*	32	Sourcing Output	<--->
P3-64TD1*	64	Sinking Output	<--->
P3-64TD2*	64	Sourcing Output	<--->
P3-08TAS	8	Isolated AC Output	<--->
P3-16TA	16	AC Output	<--->
P3-08TRS	8	Isolated Relay Output	<--->
P3-16TR	16	Relay Output	<--->
P3-08TRS-1	8	Isolated Relay Output	<--->

*ZIPLink required.

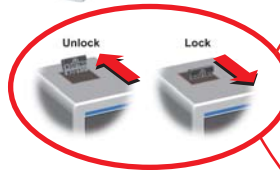
Module Installation Procedure



WARNING: Do not apply field power until the following steps are completed. See hot-swapping procedure for exceptions.

Step One: Align circuit card with slot and press firmly to seat module into connector.

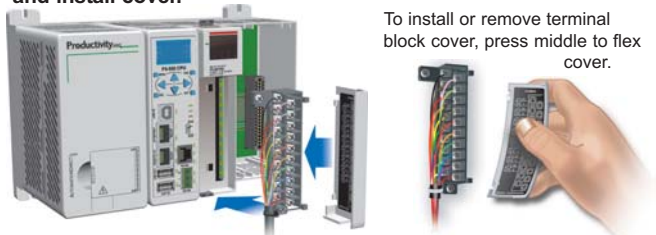
Step Two: Pull top and bottom locking tabs toward module face. Click indicates lock is



Step Three: Attach field wiring using optional terminal block or ZIPLink wiring system and install cover.



To install or remove terminal block cover, press middle to flex cover.



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 modules unless the area is known to be non-hazardous.

Wiring I/O Modules

There are two available methods for wiring most I/O modules: The ZIPLink wiring system or hand wiring to the optional removable I/O module terminal blocks.

Note: The high-density 32-point and 64-point I/O module design requires the use of the ZIPLink wiring system. Thermocouple and RTD modules are not compatible with the ZIPLink system and are shipped with the optional terminal blocks included.



ZIPLinks Wiring Systems

For wiring I/O modules, we strongly recommend using pre-wired ZIPLinks wiring systems, which eliminate the need for hand wiring modules to terminal blocks.

See the selection matrix on the following page.



ZIPLink Module



ZIPLink Pre-Wired Terminal Block Cable



ZIPLink Pigtail Cable

Removable Terminal Blocks

For most I/O modules you can also purchase a removable terminal block (part no. P3-RTB).

Note: P3-RTB supplied with thermocouple and RTD modules. P3-RTB not compatible with 32-point and 64-point I/O modules.



Removable Terminal Block P3-RTB

Terminal Block Removal

