

Bus Coupler Specifications	
Mounting Location	CPU position in a Productivity1000 System
Communication-1 Integrated Port	10/100 Mbps Ethernet
Max. I/O Modules per P1-UX	8
Max. Number of I/O per P1-UX	128 (8 slots with 16 point I/O in each slot)
External Power Required	24 VDC $\pm$ 2% @ 5W plus 1.25W per additional I/O module. See page 7 for Power Supply Options.
Protection Circuit	Not Built into module - Install protection element such as Edison S5061-R, Time Delay, 1A Fuse.

PWR
CONN
ERR

UX Status Indicators	
PWR	Green LED is backlit when power is on
CONN	Green LED is backlit when connected to EtherNet/IP Scanner or Modbus TCP Client.
ERR	Red LED indicates power-on reset, soft reboot, or watchdog timeout.



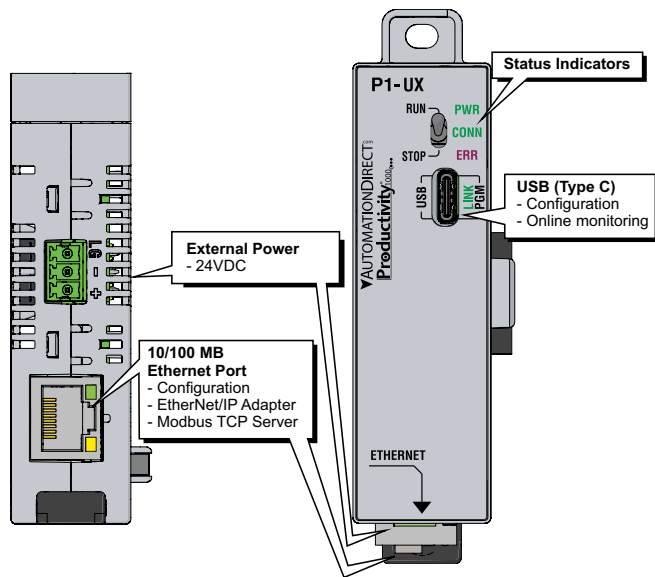
P1-UX Bus Coupler

The P1-UX is a Bus Coupler module that can be configured for EtherNet/IP or Modbus TCP for use with any EtherNet/IP Scanner or Modbus TCP Client device.

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Terminal Block sold separately, (see wiring options on page 5).

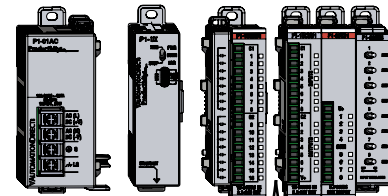
Front and Bottom Panels



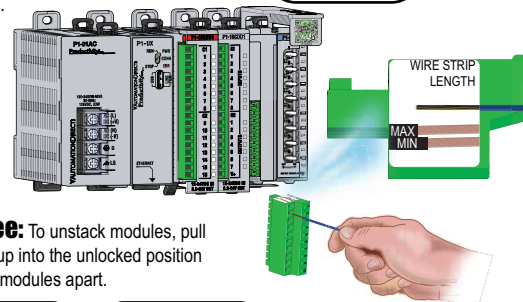
Module Installation

WARNING: Do not add or remove modules with field power applied.

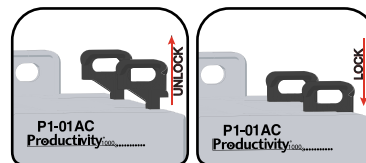
Step One: With latch in "locked" position, align connectors on the side of each module and stack by pressing together. Click indicates lock is engaged.



Step Two: Attach field wiring using the removable terminal block or ZIPLink wiring system.



Step Three: To unstack modules, pull locking latch up into the unlocked position and then pull modules apart.



Quick Start

Quick Start: Connect to the P1-UX

1. Power and connect

- o Power on the P1-UX, then connect it to an Ethernet network or connect it directly to your PC using a USB cable.

2. Open the P1-UX in a web browser

- o In your browser, enter one of the following:

- <https://p1-ux.local> (default Ethernet domain name)
- <https://p1-ux-usb.local> (default USB domain name)
- <https://10.10.10.10> (default IP address)

Note: A device certificate warning may appear in your browser. Accept it to continue.

3. Log in

- o At the login screen, enter the following default username and password:

- **Username:** admin
- **Password:** productivity

4. Select Login

Note: Before continuing, make sure the switch is set to the **STOP** position.

5. Update the domain name and/or IP address (optional)

- o Click the **P1-UX image**.
- o Update the **IP address** and/or **domain name** as needed.
- o Select **Set IP/Domain Name**, then select **Confirm**.

6. Discover modules

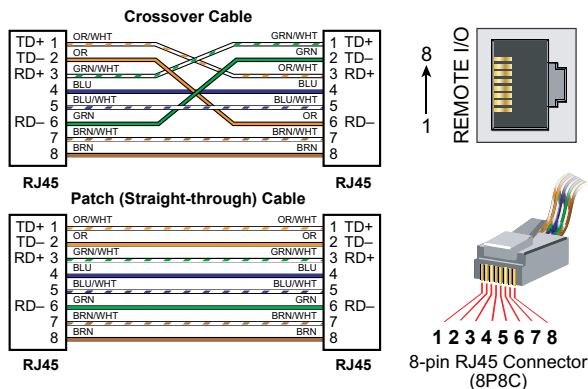
- o Select **Edit** → **Discover Modules**.
- o Select **Edit** → **Use Discovered Modules**.
- o Select **Apply Settings**.

For more information, view the full Quick Start Guide at:



Port Specifications

Ethernet Port Specifications	
Description	Proprietary transformer isolated Ethernet Port built-in surge protection.
Transfer Rate	10/100 Mbps
Port Status LEDs	Green LED is illuminated when network LINK is established. Yellow LED is backlit when port is active (ACT).
Cables	Auto crossover port allows use of a straight-through or crossover cable.

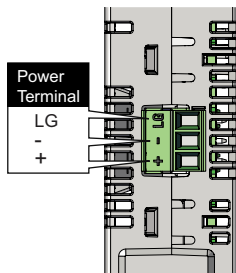


Port Specifications

USB-C Specifications	
Port Name	USB-C
Description	Standard USB-C Server input for configuration and online monitoring, with built-in surge protection. Not compatible with older full speed USB devices.
Transfer Rate	480 Mbps
Port Status LED	Green LED is illuminated when LINK is established to programming software.
Cables	USB Type A to Micro USB Type C: 6ft cable part # USB-CBL-AC6

Removable Terminal Block Specifications

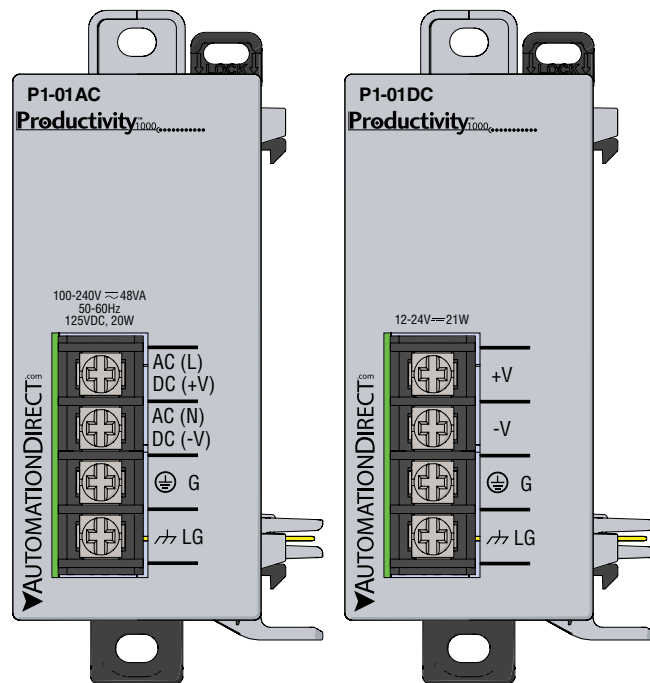
Part Number	PCON-KIT
Number of Positions	3 Screw Terminals
Pitch	3.5mm
Wire Range	28–16 AWG Solid Conductor 28–16 AWG Stranded Conductor
Screw Driver Width	1/8in [3.175mm] Maximum
Screw Size	M2
Screw Torque	1.7 lb-in [0.4 N-m]



Power Supply Options

The P1-UX requires 24 VDC input power from either a P1000 power supply or other 24 VDC $\pm 2\%$ external power supply.

- **P1-01AC:** AC Input 85–132 / 170–264 VAC or 107–150 VDC, 16W (Power for CPU and up to 8 Modules)
- **P1-01DC:** DC Input 12–24 VDC, 16W (Power for CPU and up to 8 Modules)
- On the P1-UX, the LG and minus terminals on the external power supply connection are internally shorted
- Use different 24 VDC supplies for the P1-UX and inductive loads to keep the P1-UX power clean and free of voltage spikes caused by switching inductive loads



General Specifications	
Operating Temperature	0° to 60 °C [32° to 140 °F]
Storage Temperature	-20° to +70 °C [-4° to +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)
Overvoltage Category	II
Heat Dissipation	2125 mW
Enclosure Type	Open Equipment
Module Location	Controller connector on the side of the power supply in a Productivity1000 System.
Weight	82g [2.9 oz]
Agency Approvals	UL 61010-1 and UL 61010-2-201 file E139594, Canada & USA CE (EN61131-2 EMC, EN61010-1 and EN61010-2-201 Safety)*

*See CE Declaration of Conformity for details.

WARNING: To minimize the risk of potential safety problems, you should follow all applicable local and national codes that regulate the installation and operation of your equipment. These codes vary from area to area and it is your responsibility to determine which codes should be followed, and to verify that the equipment, installation, and operation are in compliance with the latest revision of these codes.

Equipment damage or serious injury to personnel can result from the failure to follow all applicable codes and standards. We do not guarantee the products described in this publication are suitable for your particular application, nor do we assume any responsibility for your product design, installation, or operation.

If you have any questions concerning the installation or operation of this equipment, or if you need additional information, please call Technical Support at 770-844-4200.

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