Output Specifications	
Outputs per Module	8 sourcing
Rated Voltage	12–24 VDC
Operating Voltage Range	10.2–28.8 VDC
Output Type	P-Channel MOSFET, open source
Maximum Output Current	1A per point
Minimum Load Current	1mA
Maximum Leakage Current	0.3 mA @ 28.8 VDC
On Voltage Drop	0.2 VDC @ 1A
Maximum Inrush Current	4A for 50ms, 6A for 10ms
OFF to ON, ON to OFF Response	≤0.5 ms
Status Indicators	Logic Side (8 points)
Commons	1 non-isolated
Maximum Applicable Fuse	8A
External Power Supply Required	12–24 VDC (-15% / +20%) @ 22mA

AUTOMATIONDIRECT.com
Productivity®1000
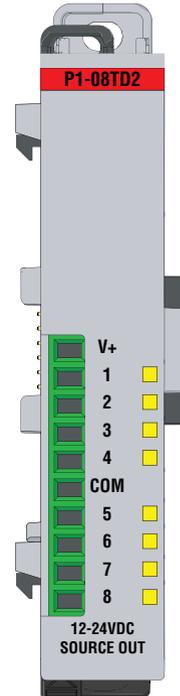
P1-08TD2 Sourcing DC Output

The P1-08TD2 DC Output Module provides eight non-isolated outputs that source up to 1A per output from a 12–24 VDC supply for use with the Productivity1000 system.

P1-08TD2

V+
1
2
3
4
COM
5
6
7
8

12-24VDC SOURCE OUT

Module Installation

QR Code

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.
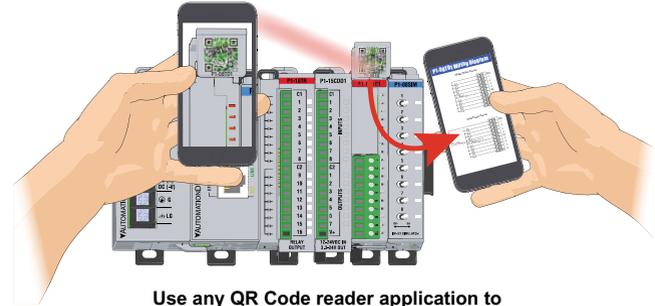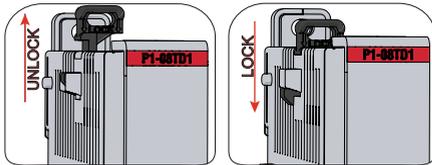

Check all latches are secure after modules are connected.
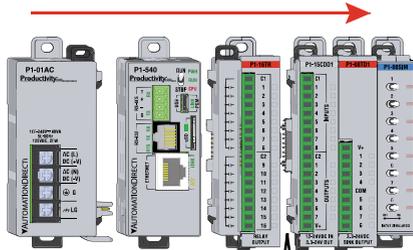
Step Two: Attach field wiring using the removable terminal block or *ZIP*Link wiring system.

WIRE STRIP LENGTH

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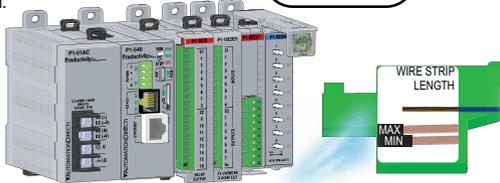
Step Three: To unstack modules, pull locking latch up into the unlocked position and then pull modules apart.

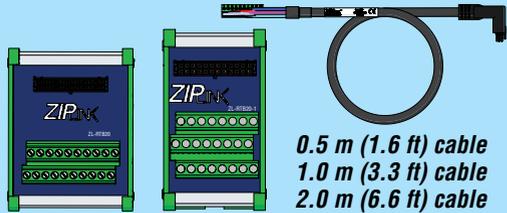UNLOCK   P1-08TD1

LOCK   P1-08TD1

Use any QR Code reader application to display the module's product insert.

Wiring Options

1 ZIPLink Feed Through *Modules and Cables*[1]

ZIPLINK AUTOMATIONDIRECT®

ZL-RTB20
ZL-RTB20-1

0.5 m (1.6 ft) cable — ZL-P1-CBL10
1.0 m (3.3 ft) cable — ZL-P1-CBL10-1
2.0 m (6.6 ft) cable — ZL-P1-CBL10-2

2 Terminal Block with pigtail cable
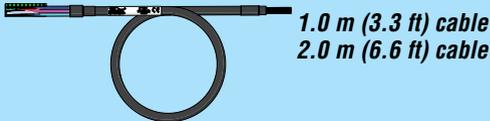
1.0 m (3.3 ft) cable — ZL-P1-CBL10-1P
2.0 m (6.6 ft) cable — ZL-P1-CBL10-2P
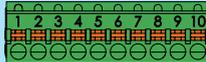
3 Screw Terminal Block only

P1-10RTB (Quantity 1)

4 Spring Clamp Terminal Block only

P1-10RTB-1 (Quantity 1)
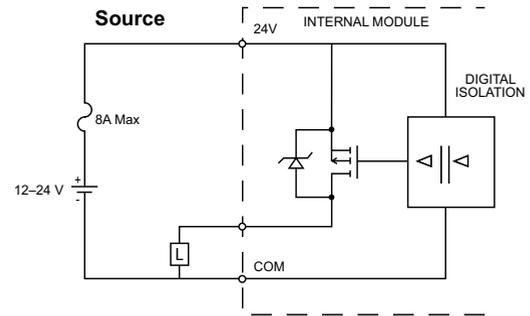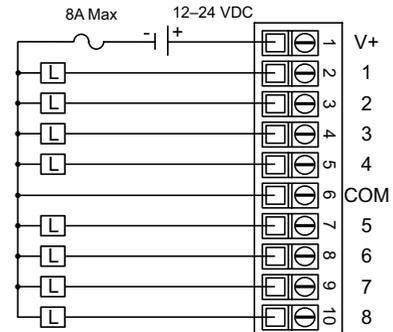
5 Accessories[2]

ZL-RTB-COM

TW-SD-SL-1

TW-SD-MSL-1

1. Cable + **ZIP**Link Module = Complete System
2. ZL-RTB-COM provides a common connection point for power or ground

---

Source

24V — INTERNAL MODULE

8A Max

12–24 V

DIGITAL ISOLATION

L — COM

Single Power Source

8A Max — 12–24 VDC

V+
1
2
3
4
COM
5
6
7
8

Terminal Block Specifications

Part Number	P1-10RTB	P1-10RTB-1
Positions	10 Screw Terminals	10 Spring Clamp Terminals
Wire Range	30–16 AWG (0.051–1.31 mm²) Solid / Stranded Conductor 3/64 in (1.2 mm) Insulation Max. 1/4 in (6–7 mm) Strip Length	28–16 AWG (0.081–1.31 mm²) Solid / Stranded Conductor 3/64 in (1.2 mm) Insulation Max. 19/64 in (7–8 mm) Strip Length
Conductors	"USE COPPER CONDUCTORS, 75°C" or equivalent.	
Screw Driver	0.1 in (2.5 mm) Maximum*	
Screw Size	M2	N/A
Screw Torque	2.5 lb·in (0.28 N·m)	N/A

*Recommended Screw Driver TW-SD-MSL-1

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)
Environmental Air	No corrosive gases permitted
Vibration	IEC60068-2-6 (Test Fc)
Shock	IEC60068-2-27 (Test Ea)
Field to Logic Side Isolation	1800VAC applied for 1 second
Insulation Resistance	>10MΩ @ 500VDC
Heat Dissipation	2600mW
Enclosure Type	Open Equipment
Module Location	Any I/O position in a Productivity1000 System.
Field Wiring	Use *ZIP*Link Wiring System or removable terminal block (sold separately). See "Wiring Options" on page 3.
EU Directive	See the "EU Directive" topic in the Productivity Suite Help File. Information can also be obtained at: www.productivity1000.com
Connector Type (sold separately)	10-Position Removable Terminal Block
Weight	60g (2.1 oz)
Agency Approvals	UL 61010-1 and UL 61010-2-201 File E139594, Canada & USA CE (EN 61131-2 EMC, EN 61010-1 and EN 61010-2-201 Safety)*

*See CE Declaration of Conformance for details.