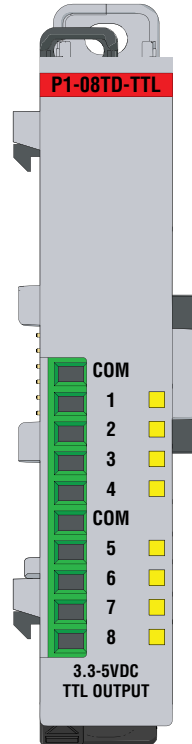


Output Specifications	
<b>Outputs per Module</b>	8 Sourcing
<b>Output Type</b>	TTL Driver
<b>Rated Voltage</b>	5V
<b>Operating Voltage Range</b>	5V ±2%
<b>Minimum Output Current</b>	0µA
<b>Maximum Output Current</b>	20mA per point or 100mA total
<b>On Voltage Drop</b>	0.2 V @ Max Load
<b>OFF to ON, ON to OFF Response</b>	≤0.5 ms
<b>Status Indicators</b>	Logic Side (8 points)
<b>Commons</b>	2, no isolation
<b>Maximum Applicable Fuse</b>	None
<b>External Power Supply Required</b>	None

## P1-08TD-TTL DC Output

The P1-08TD-TTL Module provides eight sourcing outputs to control TTL level loads for use with the Productivity1000 system.



Output Specifications	1
Module Installation	2
QR Code	2
Wiring Options	3
Schematic & Wiring Diagram	3
General Specifications	4
Terminal Block Specifications	4
Warning	4

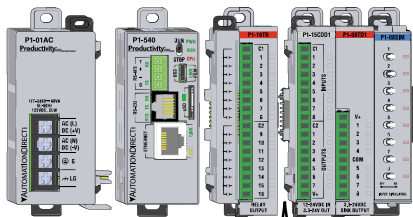
Terminal Block sold separately, (see wiring options on page 3).

# Module Installation

# QR Code

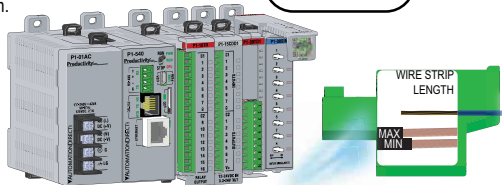
**WARNING:** Do not add or remove modules with field power applied.

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

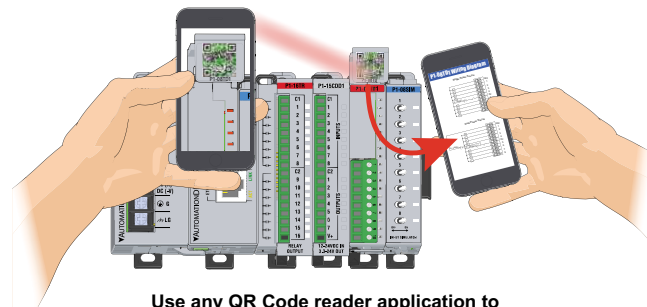
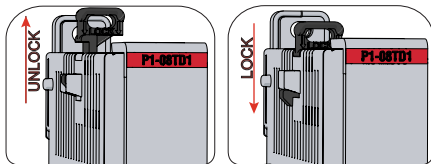


**Step Two:** Attach field wiring using the removable terminal block or ZIPLink wiring system.

Check all latches are secure after modules are connected.



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

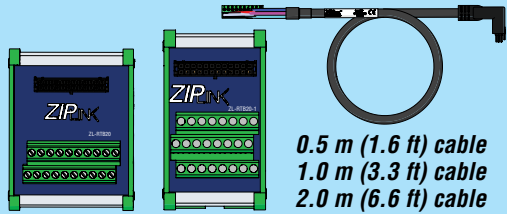


Use any QR Code reader application to display the module's product insert.

# P1-08TD-TTL Schematic and Wiring Diagram

## Wiring Options

### 1 ZIPLink Feed Through Modules and Cables<sup>1</sup>



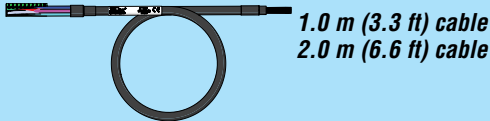
**ZIPLINK**  
AUTOMATIONDIRECT

ZL-RTB20  
ZL-RTB20-1

ZL-P1-CBL10  
ZL-P1-CBL10-1  
ZL-P1-CBL10-2

0.5 m (1.6 ft) cable  
1.0 m (3.3 ft) cable  
2.0 m (6.6 ft) cable

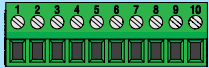
### 2 Terminal Block with pigtail cable



ZL-P1-CBL10-1P  
ZL-P1-CBL10-2P

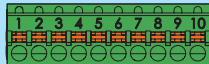
1.0 m (3.3 ft) cable  
2.0 m (6.6 ft) cable

### 3 Screw Terminal Block only



P1-10RTB  
(Quantity 1)

### 4 Spring Clamp Terminal Block only



P1-10RTB-1  
(Quantity 1)

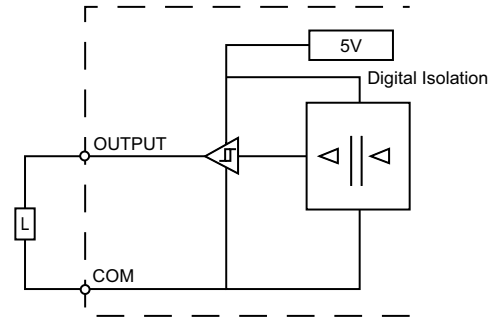
### 5 Accessories<sup>2</sup>



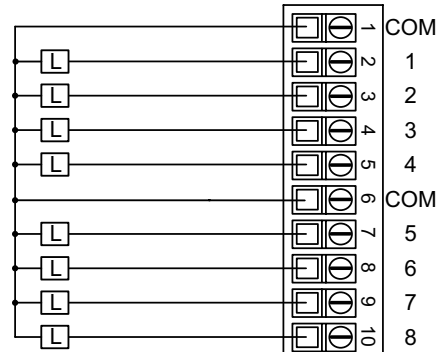
ZL-RTB-COM  
TW-SD-SL-1  
TW-SD-MSL-1

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

## INTERNAL MODULE



## Single Power Source



**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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### Terminal Block Specifications

Part Number	P1-10RTB	P1-10RTB-1
<b>Positions</b>	10 Screw Terminals	10 Spring Clamp Terminals
<b>Wire Range</b>	30–16 AWG (0.051–1.31 mm <sup>2</sup> ) 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 mm <sup>2</sup> ) Solid / Stranded Conductor 3/64 in (1.2 mm) Insulation Max. 19/64 in (7–8 mm) Strip Length
<b>Conductors</b>	*USE COPPER CONDUCTORS, 75°C* or equivalent.	
<b>Screw Driver</b>	0.1 in (2.5 mm) Maximum*	
<b>Screw Size</b>	M2	N/A
<b>Screw Torque</b>	2.5 lb-in (0.28 N-m)	N/A

\*Recommended Screw Driver TW-SD-MSL-1

### General Specifications

<b>Operating Temperature</b>	0° to 60°C (32° to 140°F)
<b>Storage Temperature</b>	-20° to 70°C (-4° to 158°F)
<b>Humidity</b>	5 to 95% (non-condensing)
<b>Altitude</b>	2,000 meters max
<b>Pollution Degree</b>	2
<b>Environmental Air</b>	No corrosive gases permitted
<b>Vibration</b>	IEC60068-2-6 (Test Fc)
<b>Shock</b>	IEC60068-2-27 (Test Ea)
<b>Overvoltage Category</b>	II
<b>Field to Logic Side Isolation</b>	1750VDC applied for 5 seconds 420VDC applied for 1 minute
<b>Insulation Resistance</b>	>10MΩ @ 500 VDC
<b>Heat Dissipation</b>	1010mW
<b>Enclosure Type</b>	Open Equipment
<b>Module Location</b>	Any I/O position in a Productivity1000 System.
<b>Field Wiring</b>	Use <b>ZIP</b> Link Wiring System or removable terminal block (sold separately). See “Wiring Options” on page 3.
<b>Connector Type (sold separately)</b>	10-Position Removable Terminal Block
<b>Weight</b>	64g (2.2 oz)
<b>Agency Approvals</b>	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.

Document Name	Edition/Revision	Date
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