



### Description

The Model T9032LVIO Logic-Voltage I/O Collector is a unit designed to interface 32 logic or voltage signals with the IED Titan Series product line. This device is designed to mount in a 19-inch equipment rack/cabinet, taking up only 1 rack unit (RU), or 1.75" of vertical space. It is a low power device which utilizes natural cooling. No additional vertical space is required in the rack for cooling. The mainframe has removable rack mounting ears, which may alternately be placed near the bottom of the mainframe for ease in mounting the unit on a wall, such as in a telephone closet, or on the back for rear rail mounting reinforcement.

The collector has connections for up to 32 logic or voltage ports. The 32 ports can be configured as inputs or outputs, and can be configured for logic or voltage. However, the configuration options must be consistent in each bank of eight ports. For example, configuration options include: 16 logic inputs X 16 logic outputs, 8 voltage inputs X 24 voltage outputs, etc.

The inputs are designed to handle up to 24V for logic signaling and can measure input voltages in the 0-10V DC range. Inputs are software selectable to sense logic states or voltage values. When set to logic, any voltage below a pre-determined threshold is reported as a logic zero and any voltage above as a logic one.

The unit also has software selectable pull up/down resistors on the inputs to allow it to handle different logic type systems such as voltage signaling, current sink and open-collector signaling. This setting is configurable for each bank of 8 inputs.

The T9032LVIO Collector links into a system through Ethernet.

The standard method of powering the collectors is through Power over Ethernet (PoE) from an IEEE 802.3af compatible Ethernet switch. They can also be powered using a Mid-Span power supply or an external 48 VDC local power supply, both purchased separately.

### Specifications

#### Electrical, Analog

Power Requirements	
Supply Voltage.....	48 VDC
Power .....	10 W

#### Connectors

I/O points (16, 2 per connector) .....	3-pin Phoenix, 3.81mm spacing
Ethernet.....	Modular 8 (RJ-45)
Auxiliary (48V) Power .....	3-pin Phoenix, 3.81mm spacing
CAN bus (2) .....	6-pin Phoenix, 3.81mm spacing

#### Controls & Indicators

Ethernet connection and data LEDs .....	2
Status LEDs .....	3 (Power, System, Fault)

#### Mechanical

Size, overall	
Width.....	(48.3 cm) 19" (with ears)
Height.....	(4.4 cm) 1.75"
Depth.....	(43.2 cm) 17"
Mounting Depth (rack depth) .....	(44.2 cm) 17.4"
<i>For proper fan operation add a minimum of 2" (5.1 cm) clearance</i>	
Weight .....	(3.2kg) 7 lbs
Cooling.....	1 fan
Mounting Ear Location Options.....	3 (front, rear, bottom)

#### Environmental

Operating Temperature Range .....	(0 °C to +50 °C) +32 °F to +122 °F
Storage Temperature Range .....	(-40 °C to +70 °C) -40 °F to +158 °F

#### Optional Accessories

PS012.....	48VDC power supply, 36W, 110/220 VAC
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