

Tango8A & Tango8ACB Access Power Controller with PoE Driven Power Supply/Charger

Description

Altronix Tango8A PoE Driven Power Supply with Access Power Controller converts an IEEE802.3bt (4PPoE) input into eight (8) regulated 24VDC and/or 12VDC outputs up to 65W. It eliminates the need for a high voltage inside of an enclosure. Tango8A is designed to support a single 12VDC LiFePO₄ (Lithium Iron Phosphate) battery for 12VDC and 24VDC backup.



Tango8A

Key Features

- Utilizes Hi-PoE (802.3bt) to simultaneously deliver 12VDC & 24VDC for powering access control and security devices.
- Built-in Lithium Iron Phosphate (LiFePO₄) battery charger for optimized power backup.
- Operates with Altronix NetWay Midspans such as NetWay8BT.
- Can be installed by any low voltage contractor.
- Eight (8) independently controlled outputs.
- Any of the eight (8) outputs are selectable for 12VDC or 24VDC.
- Eight (8) auxiliary power outputs (unswitched).
- Supervision:
 - AC Fail
 - Battery Fail and Battery Presence.
- Fire Alarm disconnect (latching or non-latching) is individually selectable for any or all of the eight (8) outputs.
- Alarm output relay indicates that FACP input is triggered.
- Lifetime Warranty

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Specifications

Ethernet Input

802.3bt PoE up to 90W (or 802.3at up to 30W or 802.3af up to 15W)

Power Output (when using 802.3bt 90W)

12VDC up to 5.4A (65W) and/or 24VDC up to 2.7A (65W).

Combined output not to exceed 65W.

When charging batteries:

12VDC up to 4.6A (55W) and/or 24VDC up to 2.3A (55W)

Combined output not to exceed 55W.

Ethernet Output

Pass-through Ethernet Port (data only).

Battery Charging Circuit

12VDC battery charger for Lithium Iron Phosphate Battery (LiFePO₄ only).

Unique technology allows for single battery to backup

12VDC and/or 24VDC systems

Supervision

Loss of PoE Input.

Battery Supervision.

Indicators (LED)

Input	Indicates input voltage is present.
Output	Indicates normal operating condition.
PoE Type	PoE Class Indicator
Supervision	PoE Fail or BAT Fail

ACMS8/ACMS8CB Access Power Controller:

Inputs

12VDC and 24VDC from Tango1B, factory wired.

Current Consumption: 0.6A @ 12V, 0.3A @ 24V with all relays energized

Main Fuse Rating 15/32A.

Trigger Inputs

Eight (8) individually controlled trigger inputs:

- Normally open (NO) inputs.
- Normally closed (NC) inputs.
- Open collector sink inputs.
- Wet Input (5VDC - 24VDC) with 10K resistor.
- Any combination of the above.

Outputs

Tango8A: Eight (8) Fuse protected outputs rated @ 2.5A per output, non power-limited. Total output 20A max.

Tango8ACB: Eight (8) PTC protected outputs rated @ 2A per output, Class 2 power-limited. Total output 16A max.

Do not exceed the individual power supply ratings.

Eight (8) selectable 12VDC or 24VDC independently controlled outputs or eight (8) independently controlled Form "C" relay outputs:

- Fail-Safe and/or Fail-Secure power outputs.
- Form "C" Relays. 28VAC or VDC @ 2.5A Rated.
- Auxiliary power outputs (unswitched).
- Any combination of the above.

Any of the eight (8) power outputs are selectable for 12VDC or 24VDC.

Individual outputs may be set to OFF position for servicing.

Output Ratings

Fuses are rated 2.5A each, PTCs are rated at 2A.

Fire Alarm Disconnect

Supervised	Latching or non-latching, individually selectable for any or all of the eight (8) outputs.
EOL	10K Resistor.

Indicators (LED)

Red LEDs	Outputs are triggered (relays energized).
Blue LED	FACP disconnect is triggered.
Individual voltage LEDs	
Green:	12VDC
Red:	24VDC.

Physical and Environmental

Dimensions (L x W x H)	15.5" x 12" x 4.5" (393.7mm x 304.8mm x 114.3mm).
Product Weight	9.7 lb. (4.08 kg).
Shipping Weight	11.0 lb. (4.67 kg).
Temperature	
Operating	0°C to 49°C (32°F to 120°F).
Storage	-20°C to 70°C (-4°F to 158°F).
Relative Humidity	85% +/-5%.
BTU/Hr. (approx.)	54 BTU/Hr

Accessories



NetWay8BT – 802.3bt Managed Midspan

- 8-Port, 480W midspan/injector delivers up to 90W per port

NetWay8BT