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AL-PWS-8D

DALI Bus power supply with 8 RJ45 connectors

8 power outputs with current limiting



Product Description - AL-PWS-8D - PoE injector with DALI bus power

This DALI bus power supply and PoE injector provides power for any DALI system using convenient RJ45 connectors. It also can provide up to 30 watts of power on each RJ45 port for DC lighting systems using Cat-5e cable. Use with any DALI driver or switches. Optimized for the AL-PWS-DR1 wall switch where LEDs with 6 watts each can be powered over Ethernet cable. The AL-PWS-8D connects to a 48v power supply and supplies current limited power to 8 outputs. It also powers the AL-DALI-Pi directly.

Specifications for AL-PWS-8D

Main power input 24 to 56 volts DC up to 5 amps

RJ45 Output Connectors 8 connectors (same pinout on each)
RJ45 standard connector with 8 pins

Red+Green means PoE with no internal DALI power

LED status (v2) Green means PoE and internal DALI power

Red means either DALI shorted or no PoE power Limited to 650 mA per RJ45 connector port -

Output Power 36 watts at 56 volts 31 watts at 48 volts

16 watts at 24 volts

Enabled by default, remove internal jumper to disable.

DALI power supply 65 mA current limit at 12 volts

16 mA at zero volts, 16 volt open circuit

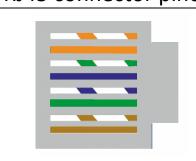
DALI bus load 5 mA if internal DALI supply is disabled by jumper Input power 2.1mm x 5.5mm DC connector with up to 5 amps

Pinout Passive PoE pinout (see chart)
Protection Reverse, short and static protection

Operating Temperature 0°C ~ 50°C

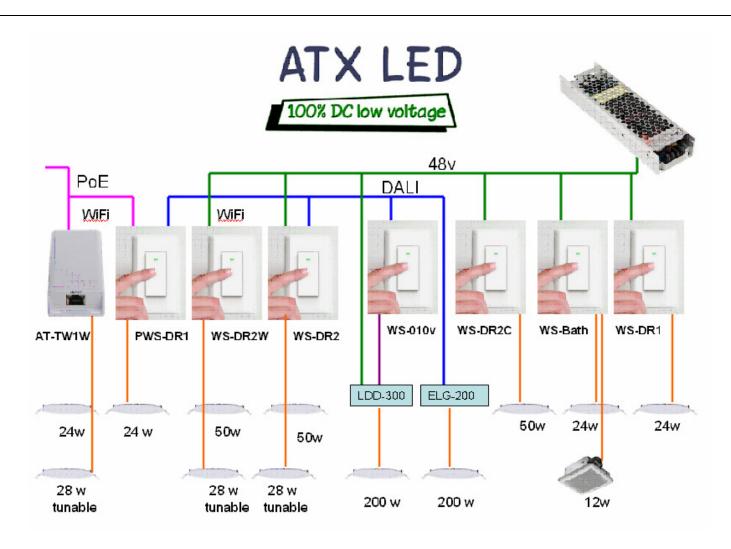


RJ45 connector pinout

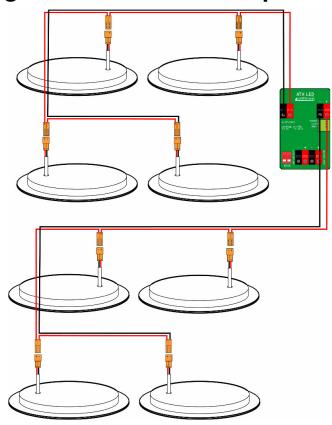


Pin	V2 (Black case)	V1(Blue case)
1	DALI +	DALI +
2	DALI – (gnd)	DALI +
3	NC**	NC
4	+ Voltage	+ Voltage
5	+ Voltage	+ Voltage
6	DALI – (gnd)	DALI – (gnd)
7	Ground	Ground
8	Ground	Ground

^{**} pin 3 is the N-Way input to a AL-PWS series switch. Internal jumper allows cross connection between adjacent RJ45 connectors (left to right) Note: Version 1 AL-PWS-DR1 are not compatible with the V2 injector – use V1 AL-PWS-8D



Wiring the AL-WS-DR2 for up to 8 LEDs





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AL-DALI-Pi with ZWD

DALI master System Hub

Hue emulation, home automation, white and tunable white



Product Description - AL-DALI-Pi with ZWD

This hub manages a DALI lighting system. It can operate offline or can connect a DALI bus with the Cloud. It assigns useful names to the physical addresses of each driver, and allows all DALI features of the drivers to be configured by any user. If cloud enabled, it allows access to Alexa, Google and Siri for home automation. The main user friendly features of this device are:

- Assign persistent friendly names to each DALI switch or DALI driver
- Synchronize names and status with Alexa / Google Home
- Build Scenes and groups
- Turn on/off any device, set brightness, fade rate, minimum/maximum levels
- Record device On/Off status
- Create schedules and macros
- Create and manage scenes
- Connect with DMX devices
- Control tunable white with DT8
- Set special modes like Fan timers, 3-Way switching
- Detect power outages and manage as needed

Local Management

This device connects by Ethernet or WiFi to your network. Then, you can connect to it to access the management pages. Examples are shown below: Use any web browser.

Hue Emulation

After assigning names to wall switch or fixture, the device will appear to the Hue App as a Hue Bridge with the names of the lights that you created.

Schedules and timers and macros

Use the built in scheduling or use Cloud apps for advanced controls. Run Python scripts as you like.

Sample Web Pages

