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AL-DA-4-1U DALI-2 bus Power supply 4 Channels

[Product Description - AL-DA-4-1U](#)

This rack mounted DALI Power supply provides 4 independent current limited power supplies per 62386 specifications. It has redundant power inputs, 4 DALI power supplies,. It is housed in a familiar 1U case for rack mounting.

The AL-DA-4-1U has 24 RJ45 connectors. Each power supply feeds 6 RJ45 connectors. Dual DC inputs are configured for failover, 15 watts for 2 channels recommended. Power supplies from 24v to 51v can be used.

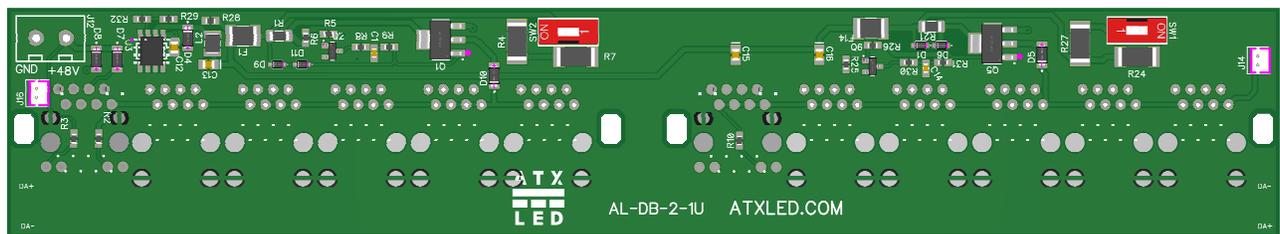
Connect a Raspberry Pi and AL-DALI-4I for control up to 256 addresses. Do not use with AL-PSE-4D or AL-PSE-8D.

The RJ45 are wired with DA+ on the odd pints (1, 3, 5, 7) and DA- on the even pins (2, 4, 6, 8). Connect to a AL-DA-6-1U for back side connections to the AL-DALI-4I hat.

The input power connector (2 pins each, provided) is marked +48v and Gnd. The +48v can be 24v to 54v.

The Red switch if ON sets the current to 260 mA, if OFF it is 80 mA, 80 mA allows longer cable runs with thinner wire.

ATX LED Current limited DALI have built in short circuit protection, the current is lowered if a short is detected - automatically

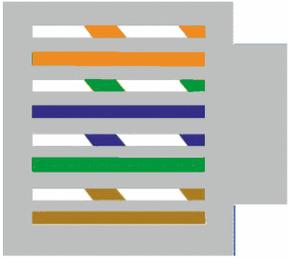
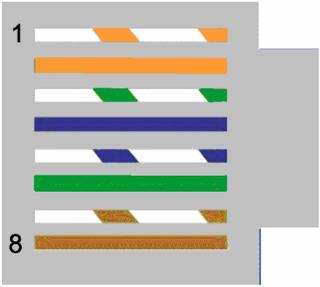


Specifications

Power source	Dual spring loaded connectors AWG 24 to AWG 16 KF 3.81 2P with screw down
DALI I/O	24 RJ45 connectors – see pinout below
Failover power inputs	Diode failover from 2 DC power inputs
Quick Connection	3.81 mm Phoenix connectors.
Input voltage range	24v to 54 volts
Dali Bus power	4x, internal
LED status	2 LEDs Green = power, Amber = DALI
Internal Power consumption	< 100 mW during normal operation
Protection	Reverse protection and static protection
Operating Temperature	0°C ~ 50°C
Size	1U 19 inches
Hot Swap	Yes – can unplug and connect power and/or data with power applied.
RJ45 #1, #7, #13, #19	These RJ45 are also Power inputs from the AL-DA-6-1U
Interconnect jumper	DALI interconnect with 2 pin ZHR connector on each side

RJ45 connector pinout

Note: Not intended for use with ATX LED hub or AL-DALI-Hat-1

 <p>RJ45 #1, #7, #13 and #19</p>	<table border="1"> <thead> <tr> <th>Pin</th> <th>#1, #7, #13, #19</th> </tr> </thead> <tbody> <tr><td>1</td><td>DALI +</td></tr> <tr><td>2</td><td>DALI -</td></tr> <tr><td>3</td><td>DALI +</td></tr> <tr><td>4</td><td>+ Voltage</td></tr> <tr><td>5</td><td>+ Voltage</td></tr> <tr><td>6</td><td>DALI -</td></tr> <tr><td>7</td><td>DALI +</td></tr> <tr><td>8</td><td>DALI -</td></tr> </tbody> </table>	Pin	#1, #7, #13, #19	1	DALI +	2	DALI -	3	DALI +	4	+ Voltage	5	+ Voltage	6	DALI -	7	DALI +	8	DALI -	<p>Intended to allow power from the AL-DA-6-1U panel</p>	
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