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AL-SML-DR8 CC / CV LED Driver 4x CCT outputs (DT8) or 8x Fixed outputs (DT6) Up to 64 LEDs DAbus data

[Product Description - AL-SML-DR8](#)

This structured media device fits into the Leviton 47605 panel and provides Class 2, UL 1310 dimmable outputs for up to 40 CC LEDs or 64 CV Leds with 6 watts each. And/Or 8, 48v Exhaust fans.

No output can exceed the power supplied by any one input – input power is NOT consolidated, therefore regardless of the number of supplies attached, the output current per port remains Class 2 assuming that the input power supply is class 2 (100 watts) per NEC 2017 requirements.

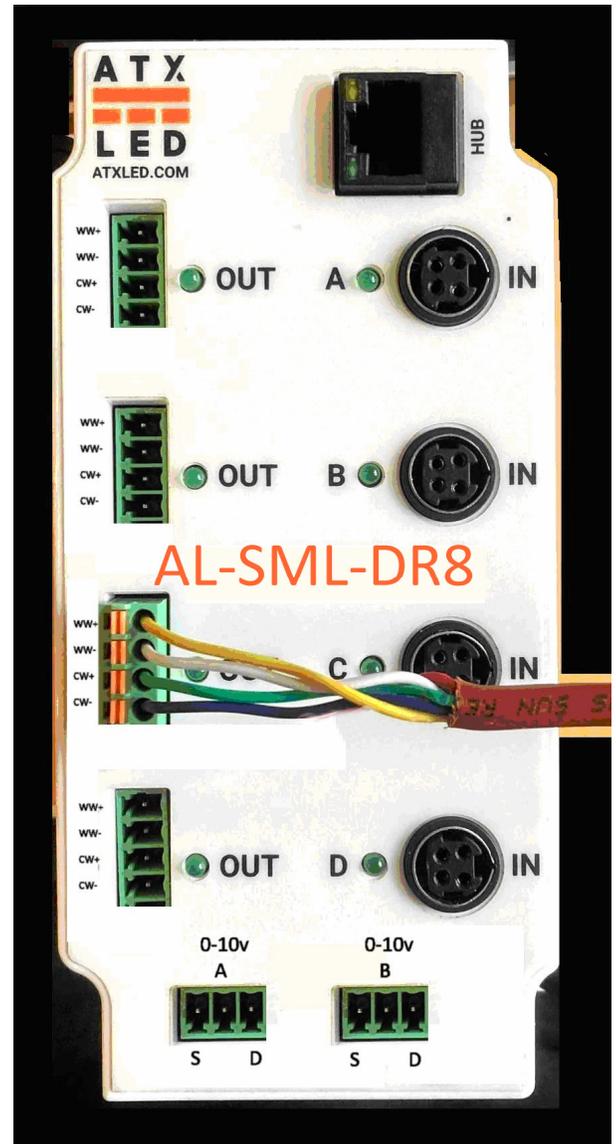
It has four power inputs – these do not have automatic failover. It is housed in a case ideal for structured wiring panels.

It uses quick connect 4 pin, 5 amp rated connectors. The inputs are the DIN 4 connectors. Voltage range is 44 to 56 volts.. Earth connection is provided for static discharge management.

Ideally matched with 4 pcs of the AL-PS-51v96w, the AL-PSE-4D is a member of the ATX SML family for quick installation in Media Panels.

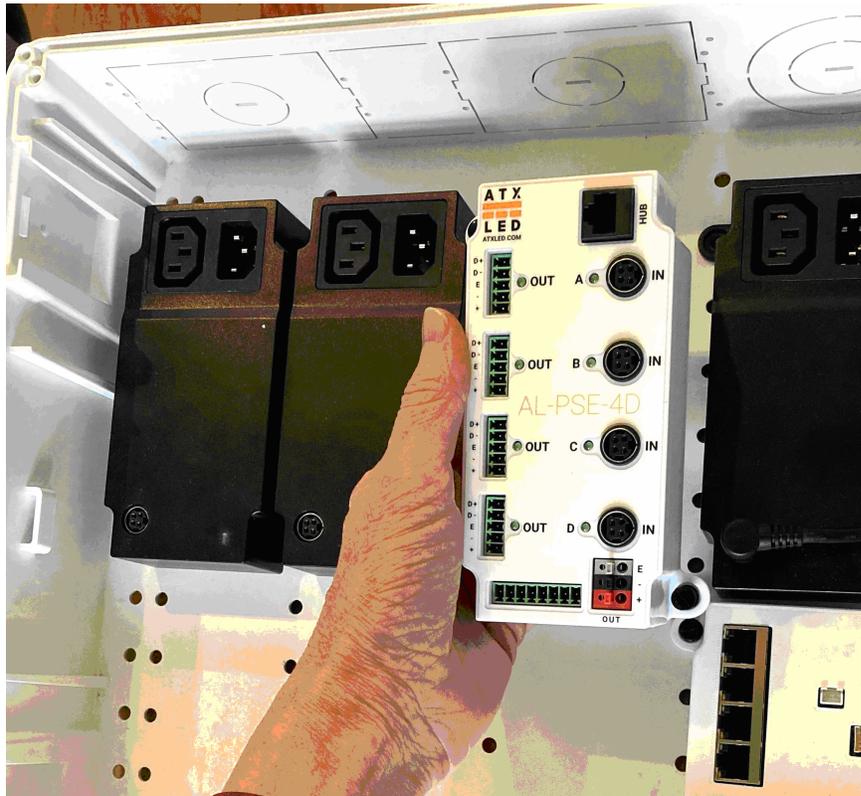
LED status display

There are 2 LEDs per channel. The input LED is the presence of voltage on inputs A thru D. The output (left) LED indicates the dimming level of the attached LEDs.



sml Format

This device is a member of the ATX LED sml family for Structured Media Panels. This allows 8 devices in a 14x14 panel. Other devices include our 51v 96w power supply, AL-DA-8 distribution panel, Raspberry Pi hat, and DAbus controlled PoE Switch.



Specifications

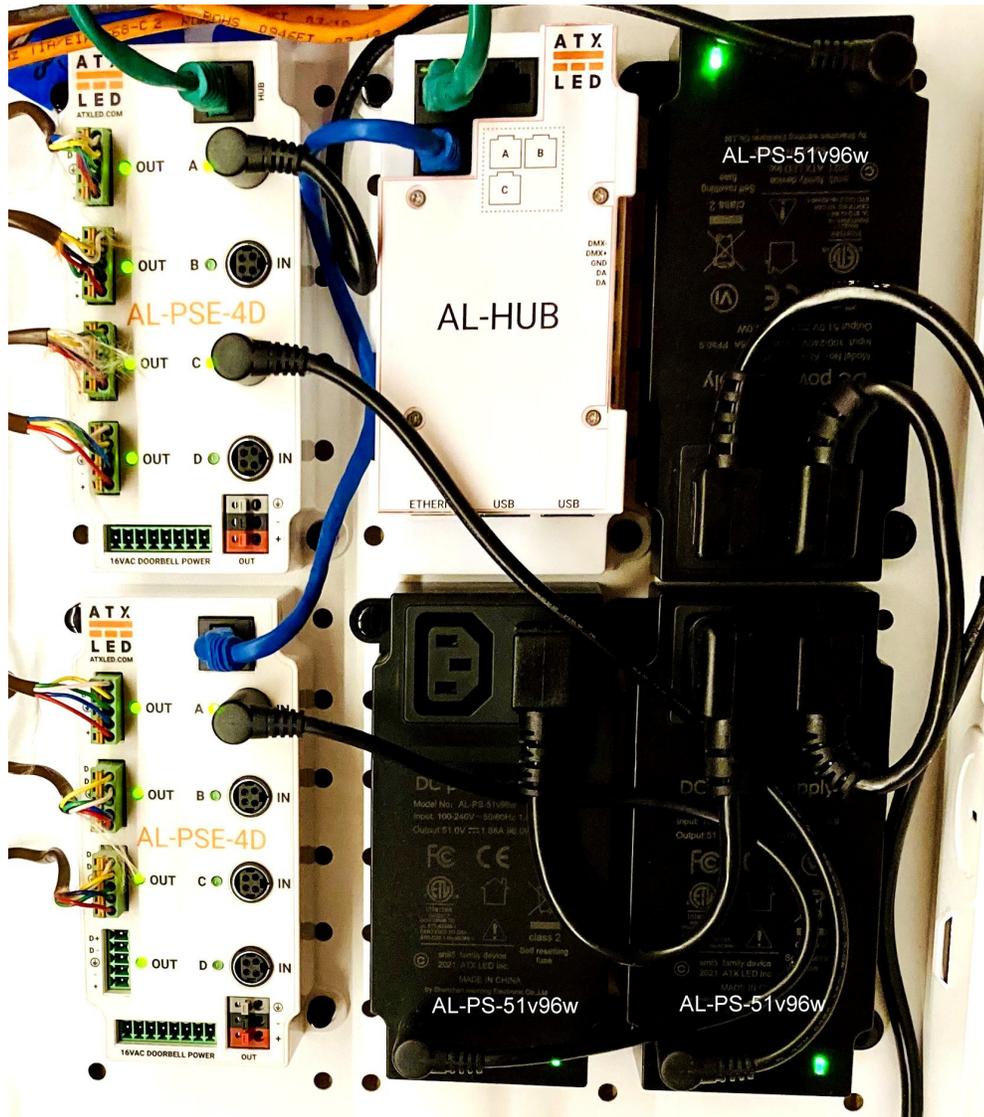
Power source	DIN4 (4 individual) connectors for the AL-PS-51v96w
Output Connectors	4 positions, 4 wires each. Wago 714-105 or KF12EKN-5P
Control Method	DALI 4 or 8 addresses 2 mA load
LED Outputs	8 LED drivers 3000:1 dimming ratio, CCR mode or CV mode selectable per output, no PWM configured as 8 individual DALI address type DT6 or as 4 individual DT8 type
Current Output	0 to 1440 per output
Voltage Output	V1 = 85% of the input voltage V2 = 100% of the input voltage
Hub power and data	RJ45 connector has 15 watts of power from any input, DAbus signals
IEC 62386* interface	2 lines per output allow for DAbus data
Input voltage range	44 to 56 volts
Current Limit	Each output is limited to either 660 mA or 1440 mA
Voltage measurement	The voltage and wattage of each attached LED can be read back via the DALI bus
Internal Power	250 milliwatts standby with all power inputs active
Protection	Reverse protection and static protection
Operating Temperature	0°C ~ 50°C
Size	70 mm x 147mm x 30mm plus 2x 10mm interleaving tabs on the 70mm side
Horizontal between tabs	76.2mm
Vertical between tabs	127mm
Hot Swap	Yes – can unplug and connect any connector live
Earth Ground	Connection for earth grounding
Mounting Kit	Leviton 47615-NYL push pins
DIN Rail	Din Rail adapters are available.

Earth Grounding

Earth grounding is recommended for static discharge of people using the wall switches. In a proper installation with the AL-51v96w power supply – the 120vac power socket should have an earth ground. That earth ground flows thru the DIN4 connector to the outputs. In cases where the AL-PS-51v96w is not used – connect a awg18 wire from the gray connector to an earth ground.

Compatible input power: AL-PS-51v96w Power Brick

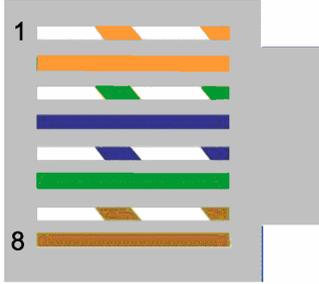
The AL-PS-51v96w power supply was designed for use with the AL-PSE-4D. It fits the SML standard case format.



Min. DIN 4 Pin (female)	Pin Assignment	
	PIN No.	Output
	1	+Vo
	2	-Vo
	3	+Vo
	4	-Vo

Class 2 Safety

The AL-PSE-4D passes the power from a UL Listed, Class 2 power supply, thru the device out to the loads. The Class 2 specifications are preserved thru this device. Hardware lockouts prevent multiple inputs from being combined into power for one output. The device also enforces the Class 2 by shutting any output down if power demand exceeds the 100 watt limit for more than 1 minute.

	Pin	Function
	1	DA +
	2	DA - (gnd)
	3	NC
	4	+ V (350 mA)
	5	+ V (350 mA)
	6	Ground
	7	Ground
	8	Ground

Hub Connector

RJ45 pinout

RJ45 Connector and Status LEDs

The RJ45 connector is used to power the ATX LED hub and provide DALI data, it uses passive PoE. Do not plug a laptop or router into this connector. The Orange LED indicates that DALI power is available. It will flash with traffic. The Green LED indicates that internal power is operational.

Ordering part numbers

Model	UPC Code
AL-SML-DR8-Fixed	
AL-SML-DR4-CCT	