

ATX LED

100% DC low voltage

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PL-ATS-8-7D

8 port Ethernet switch with PoE 802.3at and DALI control

Product Description - PL-ATS-8-7D

This PoE switch provides 10/100 Data and 802.3at power to 7 outputs with 25 watts each. It fits into standard AV structured media panels. Ideal LED lighting, Cameras, WiFi, Phones and all PoE devices.

It is housed in the ATX LED SML 3x5 case ideal for structured wiring panels. The DIN4 connector provides rock solid connections and fits the AL-PS-51v96w power supply exactly. UL924 emergency operation supported

The device has one uplink port for data with PoE input capability. 7 PoE output ports with 802.3af and 802.3at auto-negotiation operation.

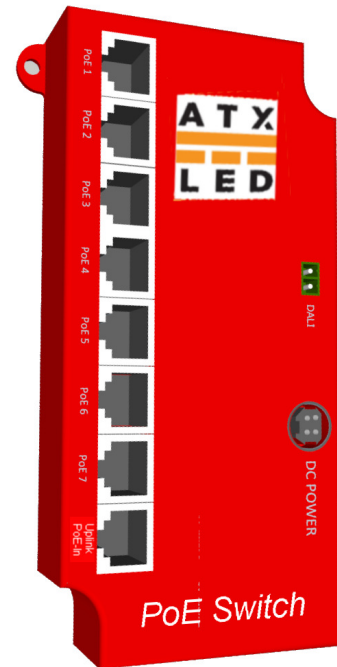
It uses the proven IP178G Ethernet switch with VLAN functions. It has a DALI connector for DALI power control of each of the PoE outputs and management of the Ethernet switch features.

LED status display

There are 1 Green LED and one Orange LED per port. Green indicates DATA link, Orange indicates PoE power active.

Specifications

Power source	DIN 4 connector
PoE and Data Out	RJ45 connectors (7 ports with PoE mode A 802.3at), 10/100 speed
Poe and Dali In	RJ45 connector (1, mode B passive), 10/100 speed
Control	DALI standard used to turn each port On/Off, also power monitor each port, set any Ethernet switch function. UL924 mode sets all outputs to 802.3af if DALI power is lost, or on command
Power per port	25 Watts per PoE standard
Suggested power source	AL-PS-51v96w or AL-DF10
Input voltage range	44v to 56 volts
Current Limit	Each port is limited to 550 mA
Protection	Reverse protection and static protection
Operating Temperature	0°C ~ 50°C
Size	70 mm x 147mm x 30mm plus 10mm interlocking tabs
Shielded RJ45 connectors	Earth Ground from DIN4 connector
Mounting Kit	Leviton 47615-NYL push pins



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, PSE48 distribution panel, Raspberry Pi hat, and DALI controlled PoE Switch.

[DALI control](#)

This device can be assigned 8 DALI addresses, each address can be turned on and off from an DALI master. The current flowing can be read back by DALI, and the DALI status will show the operating mode. With these simple controls any DALI Master can now turn PoE power on and off. Seven addresses are for the 7 PoE ports. The 8th address is to manage the Ethernet switch. See the User Guide for more details.

[UL924 operation](#)

The outputs of the PL-ATS-8-7D can be set respond to loss of DALI bus power in the following ways: OFF, 802.3af, or 802.3at. This means that loads can be shed in case of main power loss. When used with a ATX LED PoE LED driver, UL924 operation results. This means that attached Lighting will be forced ON at the reduced dimming level. With this method, egress lighting is assured, and cannot be turned off, the lighting attached operates at 5% (or other value) of full power, regardless of user settings. See the User Guide for more details. By default, the device can be used without any DALI configuration, a simple 12v supply can indicate UL924 mode – the outputs will automatically change to 802.3af mode whenever the DALI input voltage goes from ON to OFF. This means, if the DALI input never goes to ON (12 volts to 24 volts) , the outputs will default to 802.3at. But if the input was once greater than 12v, and then goes to 0 volts – the outputs will be forced to 802.3af. This is retained after complete power failure as well.

Fully Automated monthly testing is supported by the PoE switch reporting the current flowing during a system test, when switching to 802.3af mode – the attached LED current is measured at the PSE source, the profile of the load is clearly indicated as short, open or functioning within the acceptable range, this greatly reduces the cost of ownership.

[Other SML family products](#)

