SCHNICK
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SYSTEMS

System Power Supply 4E

Product Sheet

GENERATION 3

valid from release number 3.2.x

Overview

FEATURES

- Generation 3 compatible
- Dynamic-Pixel-Bus Mode for multi-channel systems
- compatible with all older Schnick-Schnack-Systems products with DMX or S3-DMX
- integrated Art-Net interface with Art-Net merger of two sources (HTP)
- built-in DMX/DPB splitter and router
- high performance Art-Net Nodes (255 Unvierses)
- software update via SD-Card or Network
- interfaces for future developments
- integrated Web Server for remote diagnosis/installation
- generatable log files
- all settings available via the Web Server
- stand-alone program to test at start-up
- Quick-Patch function
- manual color setting
- integrated Combine-Mode to reduce channel number
- mode to test the Ethernet network and the switch

The System Power Supply 4E provides Schnick-Schnack-Systems' series L, B, C and M products with power and data.

It has four independent XLR4-pin outputs and can be controlled by either Ethernet (Art-Net, sACN) or DMX512 data and is therefore compatible with most lighting consoles and media servers. The control signal can be freely patched across the four outputs. It is also possible to use the System Power Supply 4E as a standalone unit, without a DMX or Art-Net control signal.

The addressing of the components takes place directly on the System Power Supply via Smart Link.

The System Power Supply 4E belongs to Generation 3 and in addition to DMX can also read the Dynamic-Pixel-Bus protocol (DPB) in order to control LED components. By using the DPB more LED-Panels or other elements per output of a System Power Supply are possible – up to 3.072 channels. Switching between DPB and DMX is possible at all times.

The Generation 3 LED components firmware can be updated from a central point via the network with the System Power Supply 4E.

Thanks to integrated HTML 5.0 webservers, the System Power Supply can be completely controlled remotely.

Mechanical data

Features	System Power Supply 4E
Dimensions	19“, 2 U rack, 483 × 88 × 425mm (W × H × D)
Weight	8,8 kg

System Power Supply 4E (front view)

System Power Supply 4E (rear view)

Electrical Data

Features	System Power Supply 4E
Operating voltage	110-240V
Input voltage	100-240 V AC, 47-63 Hz, 700 VA
Power (I_{max})	4 × 6A*
Power switch	90A

* Note: american version only 4 × 4A at 110V

Technical data

Features	System Power Supply 4E	
Connectivity	DMX in- and output:	2 × Neutrik XLR 5-pin
	Ethernet input:	1 × Neutrik Ethercon
	LED output 1-4:	4 × Neutrik 4-pin XLR
	SD card slot:	1 × for software updates
	Power connection:	1 × IEC plug
	Fuse:	safety 5mm × 20mm, slow, 6,3A
Data input	Art-Net (DMX over Ethernet) / DMX 512 A, galvanically isolated, SchnickNet, sACN	
LED output	4 × Neutrik 4-pin XLR, each 24 V/6A*	
Number of channels	4 × 512 channels at DMX 4 × 3058 channels at DPB	
Number of processable university verses in the Art-Net	at least 100 Broadcast	
Maximum length of the XLR 4-pin cable to the LED components	Series L and B=20m** Series C and M=40m**	
Maximum heat emission per device	100W	
Admissible ambient temperature	0-40°C	

* Note: american version only 4 × 4A at 110V

** in some cases increased lengths are possible – please check this with us

The exact number of the to be controlled LED products, cabling- and calculating examples can be found in the data sheets for each LED components.

Order numbers

	Operating voltage	Power (I_{max})	Channels	Input	Output	Item number
System Power Supply 4E	110–240V AC	4 × 6A*	4 × 3072 channels (DPB) 4 × 512 channels (DMX) 4 × 5 × 5 channels**	Ethercon RJ 45 XLR-5pin IN/Trough	4 × XLR-4pin	203.0003

* Note: american version only 4 x 4A at 110V

** depending on the output configuration

ESD warning

Please be aware that electrostatic discharges can destroy LED boards, and our experience shows that this does happen. During assembly, we recommend wearing at least one antistatic wrist strap and avoiding static discharges – such as those that arise when removing protective film or dry cleaning acrylic glass, for example– near LEDs! Antistatic materials should be used when packaging the LED boards. Normal bubble wrap or other plastic bags are not suitable.

For reasons of safety and radio shielding, please only use systems we have approved to provide a power supply for our LED components. All technical information is based on the version at the time of printing.

We reserve the right to make technical specifications in terms of a product improvement without prior notice. Printing – even excerpts – requires the written consent of Schnick-Schnack-Systems GmbH.

Product Sheet Release Notes

Why Schnick Schnack Systems?

As installation times become increasingly shorter the complexity of systems simultaneously increases as do the requirements of customers.

We are a supplier who delivers high-quality reliable systems – under tight deadline constraints that are not only quick to install but also simple to operate and service.

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Version May 2016: All technical data and the weight and dimension information were carefully created – errors reserved. Any colour deviations are printing-related.

We reserve the right to make changes that serve further improvement.