

DMX Pixel-Router

Product Sheet



Overview

FEATURES

- **Designed for Video-to-LED**
- **Robust hard- and software design to manage up to 100,000 channels in real time**
- **Completely controllable via HTML 5.0 web server**
- **Ready for 60fps (for DMX packets with less than 360 channels)**
- **Future-proof due to upgrades**
- **Compatible with sACN, Art-Net™ and Schnicknet**
- **Controls Schnick-Schnack-Systems products and third-party products**
- **Optically isolated and voltage-proof outputs ensure additional operational reliability**
- **Small and compact**
- **Made in Germany**

The DMX Pixel-Router is a powerful and efficient Ethernet DMX converter that also allows LED systems from third party providers to be controlled with Schnick-Schnack-Systems proven technology.

Its applications cover a wide range of diverse requirements. For example, it is the perfect solution for large systems and installations like sensory experiences and multi-media facades with several DMX Pixel-Routers as a robust and a more attractively priced package. Smaller, permanent installations like art installations, museums, bars or discos can get a premium, high quality DMX converter at good value.

The Router sets itself apart from the competition thanks to the application for which it has been optimized: video to LED. Eleven years of "video to LED via Ethernet" experience are behind the current design that is based on state-of-the-art technology. For video to LED via Ethernet, a large amount of data must be processed quickly. The number of channels in LED installations is frequently much larger than with other DMX installations. The DMX Pixel-Router is one of the few devices on the market that can handle Ethernet bursts with more than 250 universes. What's more, it also has an optimized, multi-tasking real time operating system to process and transmit synchronized and latency-free video files. The Router's Ethernet hardware can accept large amounts of data and transmit it without delays. This way, no data packets can get lost or are stored too long. Additionally, the DMX interfaces are synchronized. Time lags that are especially noticeable and distracting in LED installations are effectively avoided.

The DMX Pixel-Router is compatible with protocols sACN, Art-Net™ and Schnicknet via the Ethernet input. Optically insulated outputs ensure additional operational reliability because they divide a system into smaller subsystems. Potential errors can then only affect a smaller part as opposed to the entire system. This makes the system stable and errors can be fixed quickly and easily, which is especially important for larger installations.

Thanks to its integrated HTML 5.0 web server, the Router can be completely configured remotely. Additional software is not required which is a big advantage for long term, permanent installations.

The small, compact device can find a place in any application and is mounted on a top-hat rail.

Mechanical Data



Features

Dimensions	17 × 100 × 114mm (W × H × D)
Weight	0,95kg
Mounting	suitable for top-hat rail EN50022

Electrical Data

Features

Operating voltage	DC voltage 24 V
Power consumption	3.2W own usage
Acceptable ambient temperature	0-40°C

Connections

Features

DMX	Phoenix cable plug 3pin, optically isolated
Network	RJ45 socket with integrated transformer
Power	Phoenix cable plug 3pin with redundant power supply, securing better operational reliability especially for larger installations

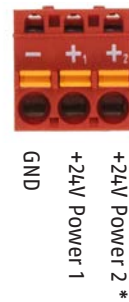
The following connectors are located on the unit:



pin assignment
DMX Out 1-4



pin assignment
Power



- Out 1-4 DMX output
- Ethernet Ethernet input
- Power 24V connection

*Redundant power supply is optional for increased operational reliability

Order numbers

	Operating voltage	Input	Output	Item number
DMX Pixel-Router	24V DC	RJ45 socket with integrated transformer	4 × Phoenix cable plug optically isolated	203.0015

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