

Outdoor Pixel-Router

Product Sheet



Overview

FEATURES

- **Designed for Video-to-LED**
- **Generation 3 compatible**
- **Robust hard- and software design to manage up to 100,000 channels in real time**
- **System wide synchronization**
- **Completely controllable via HTML 5.0 web server**
- **Different status LED lights for quick overview**
- **4 combined power/data outputs**
- **Integrated fine wire fuse for each output**
- **Input protocol: sACN, Art-Net™ and Schnicknet**
- **Output protocol: Dynamic-Pixel-Bus (DPB), DMX**
- **Controls Schnick-Schnack-Systems Outdoor Profiles**
- **Firmware via Network-Tool updateable**
- **Small and compact**
- **Made in Germany**

The Outdoor Pixel-Router is a high-performance Ethernet DPB converter that is the ideal solution for supplying LED systems in outdoor areas with electricity and control data. It is especially suited for combining Outdoor Profiles from Schnick-Schnack-Systems.

The Outdoor Pixel Router incorporates everything that is essential for an optimal outdoor permanent installation without being weighted down with redundancies; for example, it functions without DMX inputs, buttons and displays.

More than 11 years of experience in the field of "Video to LED Ethernet" has gone into the current technology-based design. The Outdoor Pixel-Router is therefore equipped with an optimized Video to LED circuitry that can process large quantities of data extremely quickly. It is one of the few devices on the market that can handle Ethernet bursts with more than 250 universes. What's more, it has an optimized multi-tasking, real-time operating system that processes and transmits video data synchronously and latency free.

Its Ethernet hardware can accept large volumes of data and redirect to the processor without any delays. In this way, loss of data packages is prevented or data is not stored too long unnecessarily. Furthermore, The DPB interfaces are also synchronized. This therefore effectively prevents time lags that are especially noticeable and annoying in LED installations.

The Outdoor Pixel-Router is compatible with the protocols sACN, Art-Net™ and Schnicknet.

Thanks to an integrated HTML 5.0 webserver, the router can be completely configured remotely. The use of any specific software is not necessary, which is particularly important for long-standing, permanent installations.

The very small, compact device can find a place in any application and is mounted with screws. The cabling effort is minimal. Up to four LED strands at 72 Watts each can be plugged into the Router with the IP connectors. Outside of a 320-Watt power supply* and an Ethernet cable, no other cabling is needed. XLR cables, XLR adapter boxes and return lines are omitted.

The Outdoor Pixel-Router is available in a 4 x 3A version and two 4 x 5A versions with one or two DC voltage inputs and also has a waterproof casing and plug. (IP 65)

*600 Watt power supply for version 5A

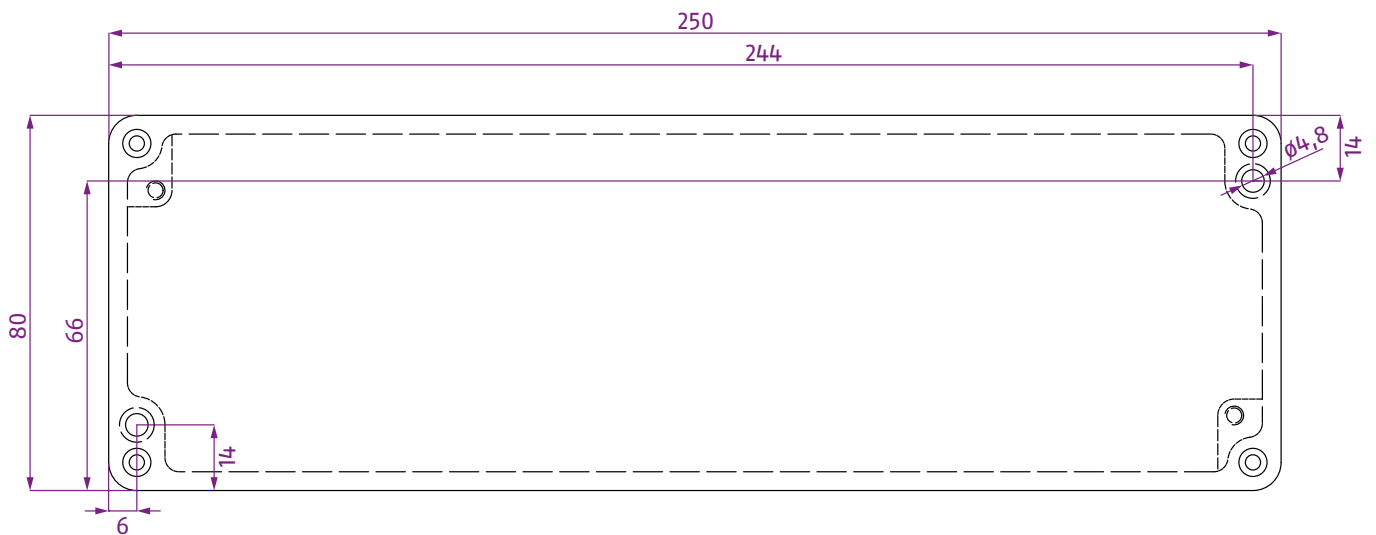
Mechanical Data

Features

Dimensions	250 × 54 × 80 mm (W × H × D)
Weight	0,93kg

Mounting

To mount the Router on a subsurface, please leave the case's top cover open and use the drilled holes as shown in the diagram to secure the device. Once attached, the case cover can be closed.



Without scale / all units in mm

Electrical Data

Features

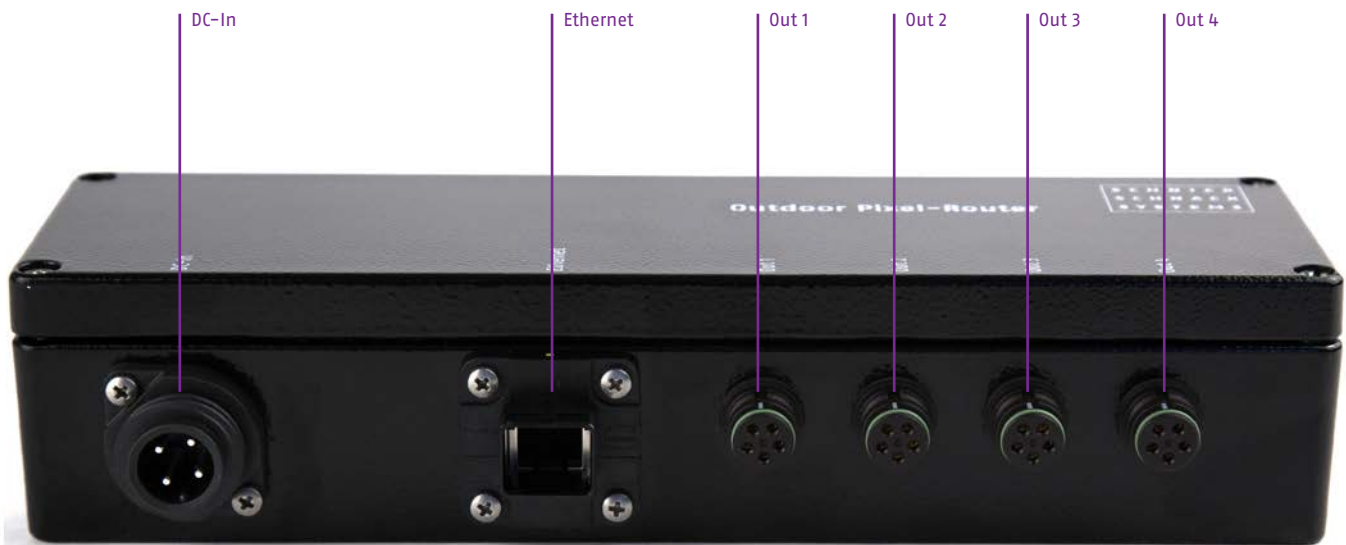
Operating voltage	DC voltage 24 V
Power consumption	3,2W own usage

Connections

Features

LED Out	Binder-5pin
Ethernet	Harting CAT5 built-in couplers IP 67
DC-In	Binder cable socket (3pin + PE) Series 692/693

The following connectors are located on the unit:



Out 1-4 DDPB-output (4 × 3A or 4 × 5A, 24V)

Ethernet Ethernet input

DC-In 24V connection

Order numbers

	Operating voltage	Power (I_{max})	Channels	Input	Output	Item number
Outdoor Pixel-Router	24V DC	4 × 3A	4 × 3072 channels	Ethernet (Harting CAT5 couplers IP67)	4 × Binder-5pin	203.0016
Outdoor Pixel-Router (1 × DC-In)	24V DC	4 × 5A	4 × 3072 channels	Ethernet (Harting CAT5 couplers IP67)	4 × Binder-5pin	203.0018
Outdoor Pixel-Router (2 × DC-In)	24V DC	4 × 5A	4 × 3072 channels	Ethernet (Harting CAT5 couplers IP67)	4 × Binder-5pin	203.0019

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.

Schnick-Schnack-Systems GmbH

Mathias-Brüggen-Straße 79
50829 Cologne (Germany)

Phone +49 (0) 221/99 2019-0
Fax +49 (0) 221/16 85 09-73

info@schnickschnacksystems.com
www.schnickschnacksystems.com

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