

Overview



The Pharos EDN 20 (Ethernet Data Node) is a convenient and scalable solution, providing cost-effective Ethernet-distributed DMX ports for large control projects. The EDN 20 is an easily configurable networking node that is specifically designed to add physical DMX ports to Pharos Controllers and integrates natively with the full Pharos range.

Extremely compact, it packs 20 DMX512 output ports in just a 1U 19" form factor. For very high-channel count installations, nodes can be daisy-chained to provide as many physical DMX universe outputs as you need.

EDNs are discoverable through Pharos Designer software and associated to a Controller to be seamlessly configured as part of your patch. Ports can be flexibly assigned to any controller in your project providing an elegant distribution solution over an Ethernet network with minimal setup required.

Features



Isolation

The EDN 20 offers 20 DMX512 output ports to control your fixtures. Each port is independently galvanically isolated up to 2KV, ensuring the control circuitry and each port of the EDN 20 is protected against a multitude of electrical line faults, including earth potential rise and ground loops.



Protection

The EDN 20 is equipped with 20 "self-healing" DMX ports, giving your equipment added protection from incorrect setup and energy surges, such as short circuits, power induction and AC power faults. Should an energy surge occur, it will be contained by the EDN 20, preventing it from flowing into other components; once the external fault is cleared, the ports "self-heal", restoring DMX output automatically.



Integration

Built from the ground up on Pharos technology, the EDN 20 natively interfaces with the rest of the Pharos product range including Pharos Designer software. Connecting it to your Designer lighting project is as simple as ensuring the EDN 20 is on the same network as the Controllers. From there, Designer will detect it, giving you full control of your Ethernet network lighting solution with minimal effort.

Scalable

Up to 200 EDN 20 units and other Remote Devices can be combined with one or more Pharos Controllers on the same network to build the ideal system for your installation. Each Remote Device is easily addressed using a convenient thumb wheel. Whether one Controller or many, it's all easily programmed using the Designer software.

RDM Capable (From Designer v2.8)

Supports the Remote Device Management protocol (ANSI E1.20), allowing fixtures connected to any of the 20 DMX512 outputs to communicate back to their respectively assigned Controllers over an Ethernet network.

Network

Works with any Controller in the Pharos range over an Ethernet network. A second network port is provided for daisy-chaining EDN 20s together. We recommend a limit of 8 daisy-chained EDNs to ensure high performance.

Installer Friendly

Made for permanent installation, with installer-friendly connectors and easy 19" rack mounting.

Reliable

Solid-state design for 24/7 operation and reliability.

5 Year Warranty

Designed in the UK, with quality and reliability our top priority.

Certifications

CE compliant, ETL/cETL pending



Interfaces

Ethernet Two Neutrik etherCon (RJ45 compatible) for *100/1000Base-TX Ethernet with Link/Data LEDs; Static IP or DHCP

DMX Twenty DMX512 ports, RDM compatible **

* Note: LPC 1/2/4 & TPCs support 10/100Base-TX. At 100Base-TX we recommend a limit of 8 EDNs to ensure high performance

** Install-friendly 0.200" (5.08mm) plug in rising clamp connectors (included)

Specifications

Certifications CE compliant, ETL/cETL pending
Power 100-240VAC / 50-60HZ / 0.25-0.1A
 25W typical (30W maximum)
 IEC connector with switch *
 * Power cable not supplied

Configuration Pharos Designer 2.7 or later
Addressing By rotary selector switch
Temperature 0°C to 50°C (32°F to 122°F)
Humidity 10-50% relative, non-condensing
Ingress IP40
Protection Ports can withstand continuous AC voltage up to 300V or peak impulse voltage up to 650V with duration less than 10ms

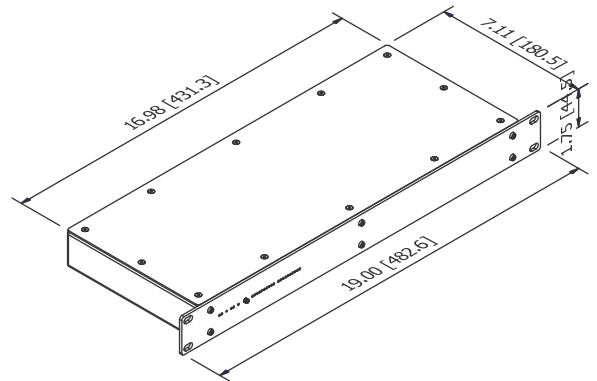
Isolation Ports independently galvanically-isolated up to 2kV

Physical 19" rack unit, 1U, 7.2" deep
 1.6 kg (3.5 lbs)

Shipping 57 x 30 x 18 cm (22" x 12" x 7")
 3.2 kg (7 lbs)

Recovery Hardware watchdog and recessed reset button

Warranty 5 years



Order Code & Variants

EDN 20 Ethernet Data Node 20 (1+1 Ethernet, 20 DMX/RDM)

