PowerGate Arma

Waterproof DMX/ArtNet/sACN over Powerline transceiver

DMX transceivers employing existing powerlines (110V/220V) to transmit DMX signal using PWRDMX technology introduced by Sundrax in 2007. Perfect solution if new cabling or wireless transmission is hindered or impossible e.g. conversion to DMX lighting for historic facades, architectural monuments, landmarks, in-ground lighting.

Powergates support ArtNet and sACN input through single Ethernet LAN 10/100Base-T link and have up to 4 DMX outputs. DMX ports are configurable through web-based management page. All PowerGates may be configured as transmitters or receivers. Tough and compact waterproof metal enclosure (IP65) specifically crafted for outdoor use.

DMX Bi-Direct   **Supports RDM**   **UltraStart**   **Galvanically Isolated Ports**

Natural Heat Convection   **Highest Ingress Protection**

Advantages

Use existing powerlines to transmit DMX streams

Ethernet port for web configuration and ArtNet/sACN data transmission

Minimum loading time, fastest recovery after short power failure

Full protection from dust and smoke increases product lifetime

Full galvanic isolation of all ports

Simple user-friendly web interface

High resistance to interference (IP65)

Maximum surge protection (100-315 V)

Application

Control DMX lights through existing powerline when new cabling or wireless transmission is hindered or impossible

DMX/ArtNet/sACN transmission between indoor spaces when new cabling is impossible

Outdoor installations when new cabling or wireless transmission is hindered or impossible

Convert lighting of facades, architectural monuments, landmarks, or historic buildings to DMX when new cabling is impossible

Convert in-ground lighting to DMX fixtures without new cabling

Merging Options

HTP: highest takes precedence

LTP: latest takes precedence

AUTO: last modified takes precedence – intelligent merging mode that provides availability to manage installation from two consoles simultaneously

OVERLAY: merges custom slots from two ArtNet/sACN streams, fully customized through web interface

PRIORITY: for sACN streams with priority tag, console with the highest priority for a given Universe will be in charge

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Technical Specifications

Mechanical

- Housing: Solid case
- Material: Metal
- Dimensions, mm: 171(D) x 55(H) x 121(W)
- Mass: 0.85 kg
- Mounting: Surface, Truss

Power & Electrical

- Power supply: ~90-270 VAC, 50/60 Hz
- Input Power (max): 5 W
- Mains Fuse: 0.1 A

Environmental

- Operating Temperature: -40…+70°C
- Storage Temperature: -50…+80°C
- Operating Relative Humidity (max): 100%
- IP Rating: IP65
- Certification: CE, RoHS
- Warranty: 36 Month (Return to base)

Control / Data Connections

- Supported protocols: DMX512, RDM, PWR DMX
- DMX data refresh rate: 44 Hz
- Ethernet: ArtNet/sACN

Inputs / Outputs

- DMX ports: 1, 2 or 4 isolated
- DMX connectors: Terminal blocks 15EDGVC
- Ethernet port: 1 (10/100 Base-TX)
- Ethernet connector: RJ-45/etherCON

Configuration / Indication

- Setup: Web-interface
- Indication: LEDs for DMX activity
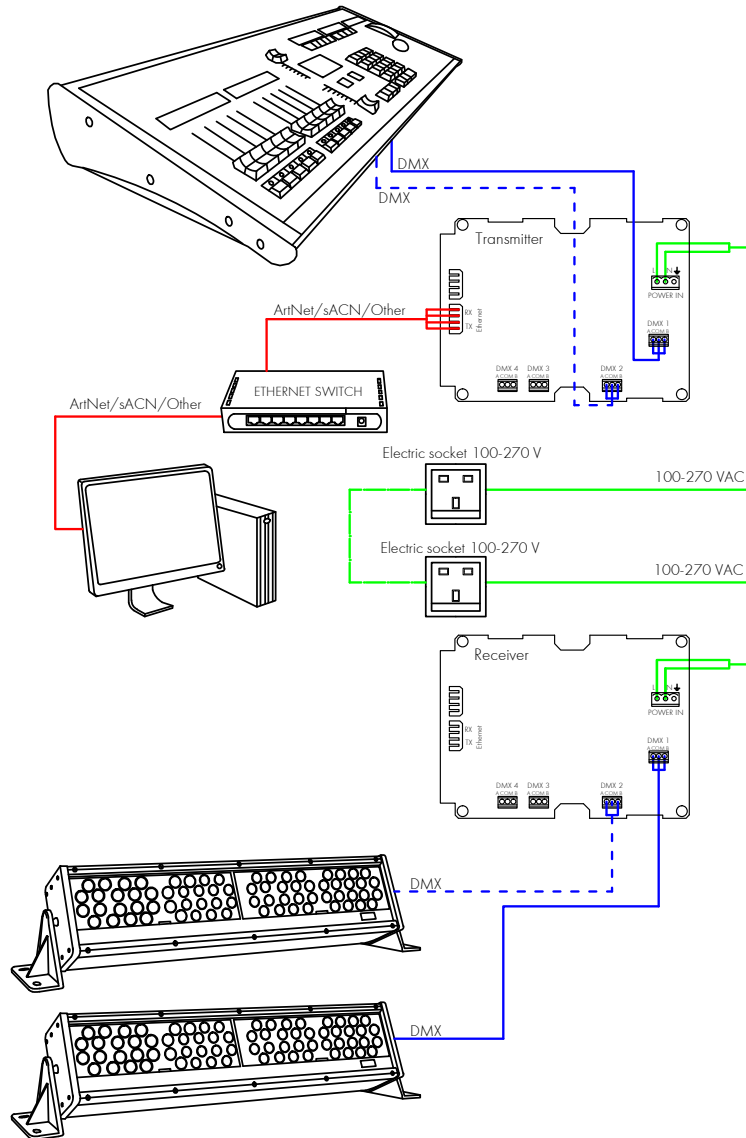
Package Contents

- PowerGate Arma
- User guide

Product Line

Name	Modification	Product code
PowerGate Arma	1 DMX input/output	PGA-0-D
	2 DMX inputs/outputs	PGA-0-2D
	4 DMX inputs/outputs	PGA-0-4D

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Connection Scheme

DMX
DMX
Transmitter
ArtNet/sACN/Other
RX
TX
Ethernet
POWER IN
DMX 1
A COM B
DMX 4   DMX 3   DMX 2
A COM B   A COM B   A COM B
ArtNet/sACN/Other
ETHERNET SWITCH
Electric socket 100-270 V
100-270 VAC
Electric socket 100-270 V
100-270 VAC
Receiver
RX
TX
Ethernet
POWER IN
DMX 1
A COM B
DMX 4   DMX 3   DMX 2
A COM B   A COM B   A COM B
DMX
DMX

Accessories

Name	Product code
Truss mounting kit	MCA-1-120

Disclaimer

To the best of our knowledge, the technical data contained herein is true and accurate at the date of issuance and is subject to change without prior notice. No liability accepted for errors or omissions. Always make sure to use the most recent release and contact Sundrax Electronics to verify correctness before placing your order.