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.

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)

Advantages

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

DMX Bi-Direct

Supports RDM

UltraStart

Galvanically Isolated Ports

Natural Heat Convection

Highest Ingress Protection

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

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 connectors: LSA-PLUS® connector

Inputs / Outputs

DMX ports: 1 or 4 isolated
DMX connectors: Terminal blocks 15EDGVC
Ethernet port: 1 (10/100 Base-TX)
Ethernet connector: LSA-PLUS® connector

Configuration / Indication

Setup: web-interface
Indication: LEDs for DMX activity

Package Contents

PowerGate Arma

Product Line

Name	Modification	Product code
PowerGate Arma	1 DMX input/output, Ethernet, AC	PGA-0-DE
	4 DMX inputs/outputs, Ethernet, AC	PGA-0-4DE

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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

ETHERNET SWITCH

ArtNet/sACN/Other

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
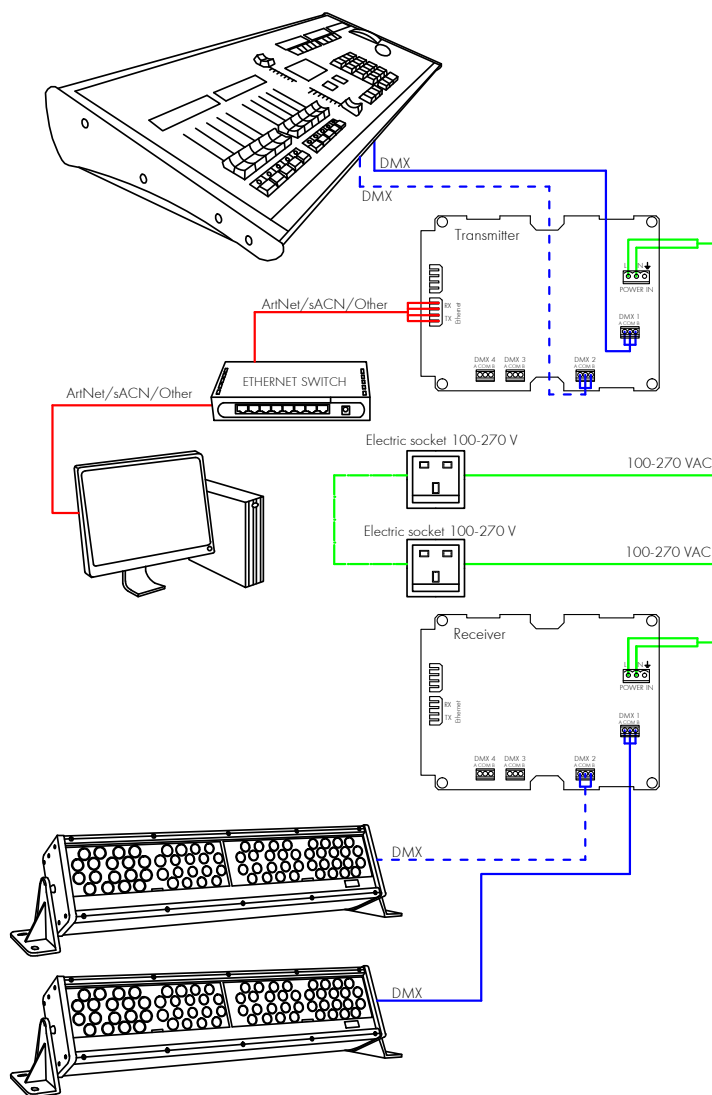
Accessories

Name	Product code
Truss mounting kit (Solid, Arma)	DMX-MCA-1-120
Surface mounting kit (Solid, Arma)	DMX-MCA-2-120

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