

# DMX

## Intelligent Stage & Theatre Lighting Management

2018 CATALOGUE

Wireless · Ethernet · Powerline  
Hybrids · LED & Pixel Drivers  
Splitters · Switches · LED Drivers  
Software



**UNDRAX**  
electronics

# About us

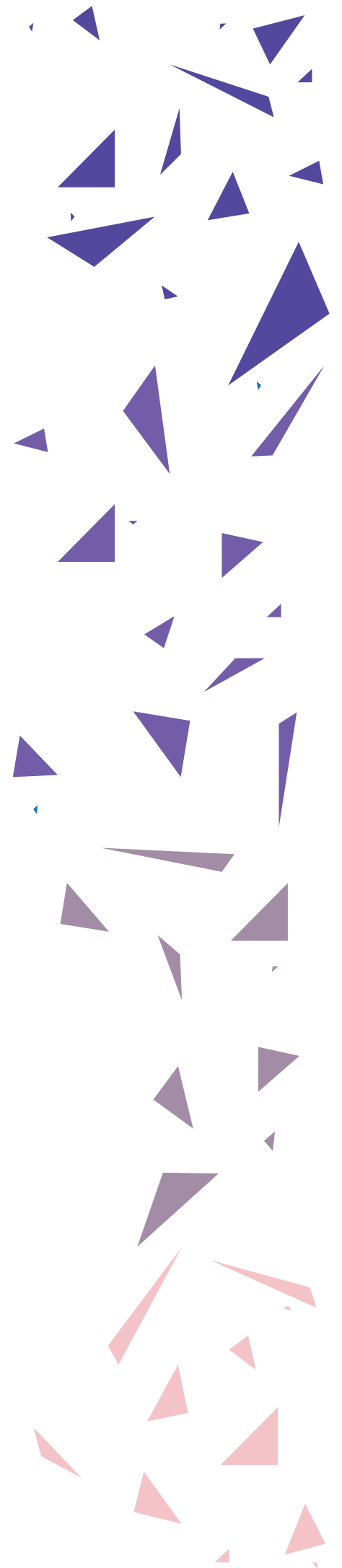
Sundrax is a leading manufacturer of professional hardware and software. The company's mission is to develop innovative, turn-key, fully integrated solutions for almost all areas of the lighting industry. Whatever your requirements are, we are happy to supply you with reliable and project-oriented products for road & street, architectural, and stage lighting management. Established in 2001 in Moscow, Sundrax Electronics has grown to become an industry recognized developer and most progressive company with international office opened in London in 2014. The biggest theatres and concert halls have chosen our equipment for their permanent installations. Our regular customers are some of the largest touring and rental companies. Today Sundrax is an established innovator, affordably priced with unequalled reliability and worldwide customer service.



# Contents

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- 5** BeDMX Technology
- 7** Wireless Transceivers
- 13** Ethernet Converters
- 21** Theatrical Lighting
- 24** ARISTO Software
- 26** Wireless/Ethernet Hybrids
- 30** DMX Splitters
- 37** PWRDMX Technology
- 38** DMX via Powerline
- 40** Ethernet Switchers
- 42** DMX Relay Switches
- 44** LED Drivers
- 48** Pixel Strip Drivers
- 50** DMX to DALI
- 53** Sundrax's DMX Series



# > be DMX

## Wireless DMX / ArtNET / sACN

BeDMX is wireless technology by Sundrax Electronics specifically developed for wireless DMX/RDM or ArtNet/sACN transceivers RadioGates and CrossGates as well as LED drivers and DMX splitters. BeDMX works in international license free 2.4 GHz ISM band based on Bluetooth protocol.

BeDMX technology provides bidirectional communication ensuring high resistance to interference with Adaptive Frequency Hopping (AFH) and long-range transmission up to 1500 m. AFH helps to avoid disturbance from any other wireless equipment by a hop rate of 1600 hops per second so you stay calm and sure that your installation works with no surprises.







# Wireless Transceivers

RadioGates are designed to transfer DMX/RDM or ArtNet/sACN data wirelessly in intellectual lighting control systems through Sundrax's BeDMX technology (2.4 GHz).

One of the most useful features of RadioGates is backup availability. Even if one transmitter goes down, a backup transmitter within seconds takes over the job, automatically establishing connection with his predecessor's group of receivers.

Another great feature implemented in RadioGates is memorizing of last saved connection settings. You don't have to configure them every time you turn them on. You create a network with RadioGates, this configuration is automatically saved and when you move to another event, just turn these devices on and they will connect to each other automatically.

Our wireless transceivers were designed for professional use by touring companies and are ready to work in severe weather conditions. We produce them in solid metal housing (IP44 for indoor installations, and IP65 for outdoor). They perfectly function in a wide temperature range between -40°C and +65°C.

# RadioGate Solid (DMX)

Wireless DMX transceiver



>be  
DMX

These RadioGate devices are designed to transfer DMX data wirelessly in intellectual lighting control systems through Sundrax's proprietary BeDMX technology. BeDMX is hi-end technology for data transmission between devices in 2.4 GHz ISM band with bidirectional communication and Adaptive Frequency Hopping (AFH) which guarantees near 100% resistance to radio frequency interference by a hop rate of 1600 hops per second. The device is equipped with 1 or 2 coaxial RP-SMA RF connectors for antenna connection configurable to work on reception or transmission.

## Environmental

Operating Temperature	0...+60°C
Storage Temperature	-40...+70°C
Operating Relative Humidity (max)	95%
IP Rating	IP44
Certification	CE, RoHS
Warranty	36 Month (Return to base)

## Mechanical

Housing	Solid case
Material	Metal
Dimensions, mm	115(D) x 55(H) x 90(W)
Weight	0.85 kg
Mounting	Surface, Truss
Connectors	2 XLR(M), 2 XLR(F) (5 pins, 3 pins)

## Power & Electrical

Power supply	~90-250 VAC, 50/60 Hz or 12-24 VDC
Max current consumption	0.1 A
Mains Fuse	0.5 A (VAC modification)

## Control / Data Connections

Supported protocols	DMX512, RDM
DMX data refresh rate	44 Hz
Transmission range (standard antenna)	100m
Communication protocol	Bluetooth 2.0
RF band	2.4 GHz

## Configuration / Indication

Setup	Buttons
Indication	LEDs for DMX activity

## Inputs / Outputs

Wireless channels	1 or 2
DMX ports	1 or 2 isolated

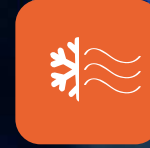
Sundrax Electronics



UltraStart



DMX Bi-Direct



Natural Heat Convection



Galvanically Isolated Ports



High Ingress Protection



Supports RDM



Back-Up Transmitter

Designed for touring/  
rental companies  
Simple configuration  
DC or AC power source  
1 button programming  
Full galvanic isolation  
Support DMX512, RDM  
Bidirectional communication  
Resistance to interference  
Up to 1500m transmission range  
Neutrik® XLR metal connectors  
Lost data replacement

Solid  
series

# RadioGate Solid (ArtNet/sACN)

## Wireless ArtNet/sACN transceiver



These RadioGate Solid devices are designed to transfer ArtNet and sACN data wirelessly in intellectual lighting control systems through Sundrax's proprietary BeDMX technology. BeDMX is hi-end technology for DMX or ArtNet/sACN data transmission between devices in 2.4 GHz ISM band with bidirectional communication and Adaptive Frequency Hopping (AFH) which guarantees near 100% resistance to radio frequency interference by a hop rate of 1600 hops per second.

This RadioGate Solid is connected to the network via RJ-45 (EtherCON). The device is equipped with 1 or 2 coaxial RP-SMA RF connectors for antenna connection configurable to work on reception or transmission.

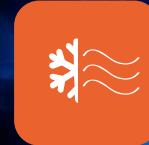
Sundrax Electronics



UltraStart



Back-Up Transmitter



Natural Heat Convection



Galvanically Isolated Ports



High Ingress Protection



2 IP addresses per Device



User-Friendly Web Interface

Operating Temperature	0...+60°C
Storage Temperature	-40...+70°C
Operating Relative Humidity (max)	95%
IP Rating	IP44
Certification	CE, RoHS
Warranty	36 Month (Return to base)

### Environmental

Housing Material	Solid case Metal
Dimensions, mm	115(D) x 55(H) x 90(W)
Weight	0.85 kg
Mounting	Surface, Truss

### Mechanical

Power supply	~90-250 VAC, 50/60 Hz 12-24 VDC
Max current consumption	0.1 A
Mains Fuse	0.5 A (VAC modification)

### Power & Electrical

Supported protocols	ArtNet I, II, III/ sACN
DMX data refresh rate	44 Hz
Transmission range (standard antenna)	100m
Communication protocol	Bluetooth 2.0
RF band	2.4 GHz

### Control / Data Connections

Setup	Web interface, Buttons
Indication	LEDs for DMX and Ethernet activity

### Configuration / Indication

Wireless channels	1 or 2
Ethernet port	10/100 Base-TX
Ethernet connectors	RJ-45/ EtherCon

### Inputs / Outputs

Designed for touring/rental companies  
 Simple configuration  
 1 button programming  
 Supports ArtNET I II III, sACN  
 Bidirectional communication  
 Resistance to interference  
 Up to 1500m transmission range  
 Neutrik® etherCON metal connectors  
 Lost data replacement

**Solid**  
series



# RadioGate Arma

Wireless DMX transceiver



>be  
DMX

These RadioGate devices are designed to transfer DMX data wirelessly in intellectual lighting control systems through Sundrax's proprietary BeDMX technology. BeDMX is hi-end technology for transmission between devices in 2.4 GHz ISM band with bidirectional communication and Adaptive Frequency Hopping (AFH) which guarantees near 100% resistance to radio frequency interference by a hop rate of 1600 hops per second.

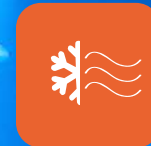
Sundrax Electronics



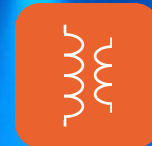
UltraStart



DMX Bi-Direct



Natural Heat  
Convection



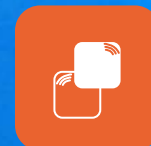
Galvanically  
Isolated Ports



Highest Ingress  
Protection



Supports RDM



Back-Up  
Transmitter

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

## Environmental

Housing Material	Solid case Metal
Dimensions, mm	115(D) x 55(H) x 90(W)
Weight	0.85 kg
Mounting	Surface, Truss

## Mechanical

Power supply	~90-250 VAC, 50/60 Hz or 12-24 VDC
Max current consumption	0.1 A
Mains Fuse	0.5 A (VAC modification)

## Power & Electrical

Supported protocols	DMX512, RDM
DMX data refresh rate	44 Hz
Transmission range (standard antenna)	100m
Communication protocol	Bluetooth 2.0
RF band	2.4 GHz

## Control / Data Connections

Setup Indication	Buttons LEDs for DMX
------------------	----------------------

## Configuration / Indication

Wireless channels	1 or 2
DMX ports	1 or 2 isolated
DMX connectors	15EDGVC terminal blocks

## Inputs / Outputs

Designed for touring/  
rental companies  
Simple configuration  
DC or AC power source  
1 button programming  
Full galvanic isolation  
Support DMX512, RDM  
Bidirectional communication  
Resistance to interference  
Up to 1500m transmission range  
Neutrik® XLR metal connectors  
Lost data replacement

**ARMA**  
series

9 | 10



WHITE Beirut  
Lebanon



XXII Winter Olympic Games  
Sochi

Television center  
"Ostankino"  
Russia



Cultural Centre  
of Belem  
Portugal





MEO Arena,  
Portugal



Helikon Opera,  
Russia



"Buta Palace"  
Azerbaijan



Fetisov Arena  
Russia



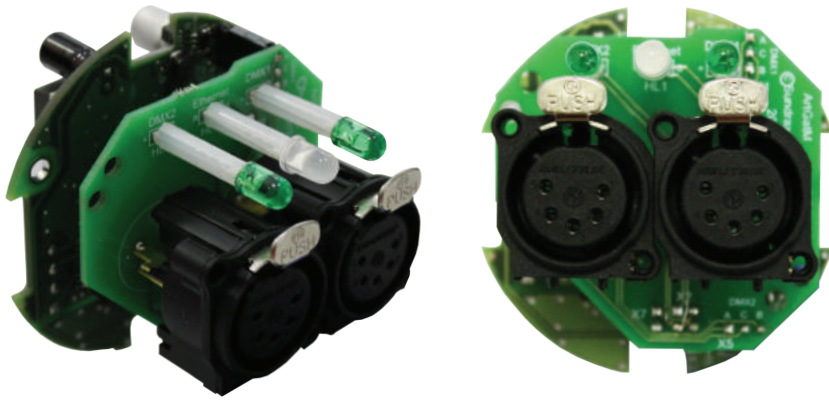
X Factor Show  
Georgia

# Ethernet Converters

ArtGate is a series of multifunctional devices for bi-directional DMX512-ArtNet/sACN converting. DMX512 data streams received by ArtGates are transmitted through Ethernet LAN in 10/100 Base-T mode and vice versa. Compatibility with ArtNet and sACN protocols makes it easy to incorporate ArtGates into networks containing devices from other manufacturers.

# ArtGate Compact

Bidirectional converter, booster,  
intelligent merger



ArtGate Compact is a series of multifunctional devices for bi-directional DMX512-ArtNet/sACN converting. DMX512 data streams received by ArtGate Compact are transmitted through Ethernet LAN in 10/100 Base-T mode and vice versa. Small size of ArtGate Compact provides high flexibility for device installation in wall sockets, stage equipment, lighting fixtures, etc. Compatibility with ArtNet and sACN protocols makes it easy to incorporate ArtGates into networks containing devices from other manufacturers.

Operating Temperature  
Storage Temperature  
Operating Relative Humidity (max)  
IP Rating  
Certification  
Warranty

## Environmental

0...+60°C  
-50...+70°C  
95%  
IP20  
CE, RoHS  
36 Month (Return to base)

Housing  
Dimensions, mm  
Weight  
Mounting

## Mechanical

No (OEM)  
60(D) x 60(H) x 55(W)  
0.15 kg  
Outlet box

Power supply  
Input power (max)

## Power & Electrical

PoE  
1 W

Supported protocols  
Data update rate

## Control / Data Connections

ArtNet I, II, III/ sACN, DMX512, RDM  
44 Hz

Setup  
Indication

## Configuration / Indication

Web interface  
LEDs for DMX and Ethernet activity

DMX ports  
DMX connectors  
Ethernet port  
Ethernet connectors

## Inputs / Outputs

1 or 2  
1 XLR(M), 1 XLR(F) (3 pins, 5 pins)  
10/100 Base-TX  
LSA-PLUS® connector



UltraStart



DMX Bi-Direct



User-Friendly  
Web Interface



2 IP addresses  
per Device



Supports RDM



Power  
over Ethernet

- Easy installation and programming
- Saves profiles
- Master IP (never gets lost)
- Simple web interface
- Merging modes: HTP, LTP, AUTO, PRIORITY
- Configurable parameters of DMX signal
- Configurable DMX port direction

Compact  
series

# ArtGate Solid

Bidirectional converter, splitter, booster,  
intelligent merger



ArtGate is a series of multifunctional devices for bi-directional DMX512-ArtNet/sACN converting. DMX512 data streams received by ArtGate Solid are transmitted through Ethernet LAN in 10/100 Base-T mode and vice versa. Compatibility with ArtNet and sACN protocols makes it easy to incorporate ArtGates into networks containing devices from other manufacturers.

## Environmental

Operating Temperature	0...+60°C
Storage Temperature	-40...+70°C
Operating Relative Humidity (max)	95%
IP Rating	IP44
Certification	CE, RoHS
Warranty	36 Month (Return to base)

## Mechanical

Housing Material	Solid case Metal
Dimensions, mm	171(D) x 55(H) x 121(W)
Weight	1.2 kg
Mounting	Surface, Truss

## Power & Electrical

Power supply	~90-250 VAC, 50/60 Hz; PoE
Input Power (max)	5 W
Mains Fuse	0.5 A

## Control / Data Connections

Supported protocols	ArtNet I, II, III/ sACN, DMX512, RDM
DMX data refresh rate	44 Hz

## Configuration / Indication

Setup	Web interface
Indication	LEDs for DMX and Ethernet activity

## Inputs / Outputs

DMX ports	2 or 4 isolated
Connectors	XLR (M), XLR (F) (5 pins, 3 pins)
Ethernet port	2 (10/100 Base-TX)
Ethernet connectors	RJ-45/ EtherCon
PoE port	1

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PoE  
802.15f

Power  
over Ethernet

ULTRA  
START

UltraStart

DMX  
Bi-Direct

DMX Bi-Direct



Natural Heat  
Convection



Galvanically  
Isolated Ports

IP44

High Ingress  
Protection

DMX  
RDM

Supports RDM



User-Friendly  
Web Interface

Double  
IP

2 IP addresses  
per Device

Easy installation  
and programming  
Saves profiles  
Master IP (never gets lost)  
Simple web interface  
Galvanic isolation of all ports  
Merging modes: HTP, LTP, AUTO,  
PRIORITY  
Configurable parameters  
of DMX signal  
Configurable DMX port direction

Solid  
series

# ArtGate Arma

Bidirectional converter, splitter, booster, intelligent merger



ArtGate is a series of multifunctional devices for bi-directional DMX512-ArtNet/sACN converting. DMX512 data streams received by ArtGate Arma are transmitted through Ethernet LAN in 10/100 Base-T mode and vice versa. Compatibility with ArtNet and sACN protocols makes it easy to incorporate ArtGates into networks containing devices from other manufacturers.

## Environmental

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

## Mechanical

Housing	Solid case
Material	Metal
Dimensions, mm	171(D) x 55(H) x 121(W)
Weight	1.2 kg
Mounting	Surface, Truss

## Power & Electrical

Power supply	~90-250 VAC, 50/60 Hz; PoE
Input Power (max)	5 W
Mains Fuse	0.5 A

## Control / Data Connections

Supported protocols	ArtNet I, II, III/ sACN, DMX512, RDM
DMX data refresh rate	44 Hz

## Configuration / Indication

Setup	Web-interface
Indication	LEDs for DMX and Ethernet activity

## Inputs / Outputs

DMX ports	2 or 4
DMX connectors	15EDGVC terminal blocks
Ethernet port	2 (10/100 Base-TX)
Ethernet connectors	LSA-PLUS® connector
DMX connectors	15EDGVC terminal blocks
PoE port	1

Sundrax Electronics

PoE  
802.15f

Power  
over Ethernet

ULTRA  
START

UltraStart

DMX  
Bi-Direct

DMX Bi-Direct



Natural Heat  
Convection



Galvanically  
Isolated Ports

IP65

Highest Ingress  
Protection

DMX  
RDM

Supports RDM



User-Friendly  
Web Interface

Double  
IP

2 IP addresses  
per Device

- Easy installation and programming
- Saves profiles
- Master IP (never gets lost)
- Simple web interface
- Galvanic isolation of all ports
- Merging modes: http, ltp, auto, priority
- Configurable parameters of DMX signal
- Configurable DMX port direction

**ARMA**  
series 15|16

# ArtGate DIN

Bidirectional converter, splitter, booster,  
intelligent merger



ArtGate is a series of multifunctional devices for bi-directional DMX512-Artnet/sACN converting. DMX512 data streams received by ArtGate DIN are transmitted through Ethernet LAN in 10/100 Base-T mode and vice versa. Compatibility with Artnet and sACN protocols makes it easy to incorporate ArtGates into networks containing devices from other manufacturers.

## Environmental

Operating Temperature	-40...+70°C
Storage Temperature	-50...+80°C
Operating Relative Humidity (max)	95%
IP Rating	IP20
Certification	CE, RoHS
Warranty	36 Month (Return to base)

## Mechanical

Housing	DIN mounted case (8 modules)
Material	Metal, Plastic
Dimensions, mm	210(D) x 105(H) x 75(W)
Weight	0.85 kg
Mounting	Power cabinet

## Power & Electrical

Power supply	~90-250 VAC, 50/60 Hz
Input power (max)	5 W
Mains Fuse	0.5 A

## Control / Data Connections

Supported protocols	Artnet I, II, III/ sACN, DMX512, RDM
Data refresh rate	44 Hz

## Configuration / Indication

Setup	Web interface
Indication	LEDs for DMX and Ethernet activity

## Inputs / Outputs

DMX ports	4 or 8 isolated
DMX connectors	Terminal blocks 15 EDGVC
Ethernet port	10/100 Base-TX
Ethernet connectors	RJ-45

Sundrax Electronics



UltraStart



DMX Bi-Direct



Natural Heat  
Convection



Galvanically  
Isolated Ports



User-Friendly  
Web Interface



Supports RDM



Permanent  
Laser Engraving



2 IP addresses  
per Device

- Easy installation and programming
- Saves profiles
- Master IP (never gets lost)
- Simple web interface
- Galvanic isolation of all ports
- Merging modes: HTP, LTP, AUTO, PRIORITY
- Configurable parameters of DMX signal
- Configurable DMX port direction

**DIN**  
series



# ArtJet Pro

Bidirectional DMX <-> ArtNet/sACN converter, splitter, booster, intelligent merger with fiber optic



Multifunctional device for bi-directional DMX512-ArtNet/sACN converting with fiber optic communication. DMX512 data streams received by ArtJet are transmitted through Ethernet LAN in 10/100 Base-T mode or fiber 100Base-FX mode and vice versa. Full compatibility with ArtNet and sACN protocols.

Fiber link enhances length of direct communication between transceivers up to 2000 metres eliminating use of unnecessary switches or repeaters. ArtJets are especially advantageous for long distance installations providing perfect tool to establish safety ring network for data backup.

Sundrax Electronics

PoE  
802.15f

Power over Ethernet

ULTRA  
START

UltraStart

DMX  
Bi-Direct

DMX Bi-Direct



Natural Heat Convection



Galvanically Isolated Ports

IP44

High Ingress Protection



Supports RDM



User-Friendly Web Interface

Double IP

2 IP addresses per Device

Easy installation and programming  
Optical fiber connectivity via duplex SC snap-in connectors  
Ethernet connectivity via lockable RJ-45 EtherCONS  
PoE available  
Profile stored internally  
2 IPs (Master IP that never gets lost)  
Simple web interface  
Galvanic isolation of all ports  
Merging modes: HTP, LTP, AUTO, PRIORITY  
Configurable parameters of DMX signal  
Configurable DMX port direction

## Environmental

Operating Temperature	0...+60°C
Storage Temperature	-50...+70°C
Operating Relative Humidity (max)	95%
IP Rating	IP20
Certification	CE, RoHS
Warranty	36 Month (Return to base)

## Mechanical

Housing Material	Solid case Metal
Dimensions, mm	482(D) x 44(H) x 110(W)
Weight	1.2 kg
Mounting	Rack 1 unit

## Power & Electrical

Power supply	~90-250 VAC, 50/60 Hz; PoE
Input Power (max)	5 W
Mains Fuse	0.5 A

## Control / Data Connections

Supported protocols	ArtNet I, II, III/ sACN, DMX512, RDM
DMX data refresh rate	44 Hz

## Configuration / Indication

Setup	Web interface
Indication	LEDs for DMX and Ethernet activity

## Inputs / Outputs

DMX ports	8
Connectors	1 Female, 8 Male XLRs (5 pins, 3 pins)
Ethernet port	10/100 Base-TX (up to 100m)
Fiber port	100 Base-FX (up to 2000m)
Ethernet connectors	RJ-45/ EtherCon
Fiber Optic connectors	Duplex SC

Solid series

# ArtGate Pro

Bidirectional converter, splitter, booster,  
intelligent merger

Sundrax Electronics



ArtGate is a series of multifunctional devices for bi-directional DMX512-ArtNet/sACN converting. DMX512 data streams received by ArtGate Pro are transmitted through Ethernet LAN in 10/100 Base-T mode and vice versa. Compatibility with ArtNet and sACN protocols makes it easy to incorporate ArtGates into networks containing devices from other manufacturers.

Operating Temperature	0...+60°C
Storage Temperature	-50...+70°C
Operating Relative Humidity (max)	95%
IP Rating	IP20
Certification	CE, RoHS
Warranty	36 Month (Return to base)

## Environmental

Housing	Solid case
Material	Metal
Dimensions, mm	482(D) x 44(H) x 110(W)
Weight	1.2 kg
Mounting	Rack 1 unit

## Mechanical

Power supply	~90-250 VAC, 50/60 Hz;
Input power (max)	5 W
Mains Fuse	0.5 A

## Power & Electrical

Supported protocols	ArtNet I, II, III/ sACN, DMX512, RDM
Data refresh rate	44 Hz

## Control / Data Connections

Setup	Web interface
Indication	LEDs for DMX and Ethernet activity

## Configuration / Indication

DMX ports	2, 4 or 8
Connectors	2, 4 or 8 XLR(F) (5 pins, 3 pins)
Ethernet port	10/100 Base-TX
Ethernet connectors	RJ-45/ EtherCon

## Inputs / Outputs



UltraStart



DMX Bi-Direct



Natural Heat Convection



Galvanically Isolated Ports



User-Friendly Web Interface



Supports RDM



2 IP addresses per Device

- Easy installation and programming
- Saves profiles
- Master IP (never gets lost)
- Simple web interface
- Galvanic isolation of all ports
- Merging modes: HTP, LTP, AUTO, PRIORITY
- Configurable parameters of DMX signal
- Configurable DMX port direction

pro series

# ArtGate Pro Deluxe

Bidirectional converter, splitter, booster,  
intelligent merger

Sundrax Electronics



ArtGate is a series of multifunctional devices for bi-directional DMX512-Artnet/sACN converting. DMX512 data streams received by ArtGate Pro Deluxe are transmitted through Ethernet LAN in 10/100 Base-T mode and vice versa. Compatibility with Artnet and sACN protocols makes it easy to incorporate ArtGates into networks containing devices from other manufacturers. Deluxe sub-series is Sundrax's specialty for 2-unit rack mountable ArtGates with 12 or 16 DMX ports.

## Environmental

Operating Temperature	0...+60°C
Storage Temperature	-50...+70°C
Operating Relative Humidity (max)	95%
IP Rating	IP20
Certification	CE, RoHS
Warranty	36 Month (Return to base)

## Mechanical

Housing	Solid case
Material	Metal
Dimensions, mm	482(D) x 88(H) x 220(W)
Weight	1.27 kg
Mounting	Rack 2 unit

## Power & Electrical

Power supply	~90-250 VAC, 50/60 Hz
Input power (max)	5 W
Mains Fuse	0.5 A

## Control / Data Connections

Supported protocols	Artnet I, II, III/ sACN, DMX512, RDM
Data refresh rate	44 Hz

## Configuration / Indication

Setup	Web interface
Indication	LEDs for DMX and Ethernet activity

## Inputs / Outputs

DMX ports	12 or 16
Connectors	12 or 16 XLR(F) (5 pins, 3 pins)
Ethernet port	10/100 Base-TX
Ethernet connectors	RJ-45/ EtherCon



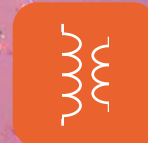
UltraStart



DMX Bi-Direct



Natural Heat  
Convection



Galvanically  
Isolated Ports



User-Friendly  
Web Interface



Supports RDM



2 IP addresses  
per Device

Easy installation  
and programming  
Saves profiles  
Master IP (never gets lost)  
Simple web interface  
Galvanic isolation of all ports  
Merging modes: HTP, LTP, AUTO,  
PRIORITY  
Configurable parameters  
of DMX signal  
Configurable DMX port direction

pro series

# THEATRE LIGHTING

Stage lighting for theatres is what we particularly good at. This is why Sundrax's equipment is installed in dozens of theatres all over the world. Some of them you may see at this page.

## **Bolshoi Theatre** **| Moscow**

ArtGate PRO Deluxe 16-port x 13  
ArtGate PRO 8-port x 7  
ArtGate PRO 4-port x 60  
RadioGate Solid 1-port x 16  
RadioGate x 16

## **Teatro Nacional de São Carlos** **| Lisbon**

ArtGate PRO

## **National Theatre** **| Tokyo**

ArtGate PRO

## **Theatre of Nations** **| Moscow**

Splitter PRO x 12  
ArtGate Solid x 5  
ArtGate PRO x 6  
RadioGate Solid 1-port x 11  
RadioGate Solid 2-port x 16

## **Teatro da Trindade** **| Lisbon**

ArtGate PRO





# Vyacheslav Volobuyev

Deputy Head of Production Lighting Division  
The State Academic Bolshoi Theatre of Russia

— This is full turn-key solution  
and we are very confident  
and secure using it

On behalf of The State Academic Bolshoi Theatre of Russia I would like to thank Sundrax for their contribution to renovation of Bolshoi Theatre through supplying equipment for stage lighting control and monitoring. Our theatre is one of the biggest in the world and we required special approach, for example we needed software that allows us to control real-time status of distribution network and lighting devices, configure them, as well as always be immediately aware of every fault condition. This software was developed by Sundrax specially for us and proved its excellency over time. With it we are now managing wide range of Sundrax equipment: not only wireless transceivers and splitters, but also 4-, 8-, 16-port ArtGates - this is full turn-key solution and we are very confident and secure using it.

For many years we are enjoying prompt supply, outstanding quality and reliability of the equipment, and comprehensive technical support together with Sundrax and I hope our cooperation will last forever and ever. It is hard to find a partner more competent and reliable.



# ARISTO

ARISTO software was designed to professionally manage and diagnose ArtNet/sACN network of the venue using user-friendly topographical interface. All you have to do is download the scheme of the venue, position the devices, give them names and IP addresses and connect the devices with virtual links. After creating and saving the configuration, you can download and play it back any time you need. On one intuitive interface you can set up and control all lighting equipment of the network. Another substantial ARISTO advantage is diagnostics.

You can check the status of all elements of the system: ArtGates transceivers, RadioGate wireless devices, as well as Ethernet switches, UPSs and lighting fixtures. ARISTO interface is especially applicable for big lighting installations, like stage lighting systems of theatres and concert halls, where you need to operate numerous DMX-ports and be able to change the ArtNet/ACN network settings several times a day. With ARISTO software you can manage MultiDMX stage lighting systems easily.



# Opening Ceremony of 16th FINA World Championships

A set of professional ArtGates PRO (4 DMX + 1 Splitter port) by Sundrax at the key position converting ArtNet to physical DMX for interactive fountain show for Opening Ceremony of 16th FINA World Championships in Kazan, Russia.

Smooth, failure-free work for all 2 months of day-and-night programming, rehearsals and two hours of spectacular show for all guests.





# Wireless/Ethernet Hybrids

Hybrid devices combining wireless and Ethernet transmission of DMX512/ArtNet/sACN data, and acting also as splitters, converters and mergers which makes CrossGate a paragon of Sundrax's excellence in technology and entertainment culture. Wireless transmission of DMX512/ArtNet/sACN data is provided through Sundrax's proprietary BeDMX technology. BeDMX is hi-end technology for DMX512/ArtNet/sACN transmission between devices in 2.4 GHz ISM band with bidirectional communication and Adaptive Frequency Hopping (AFH) which guarantees near 100% resistance to radio frequency interference by a hop rate of 1600 hops per second. The device is equipped with 2 or 4 coaxial RP-SMA RF connectors for antenna connection

# CrossGate Pro

Bidirectional converter, splitter, booster  
intelligent merger

Sundrax Electronics



>be  
DMX

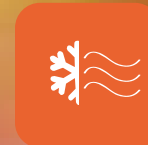
CrossGates are our top-of-the-line wireless hybrid devices combining wireless and Ethernet transmission of DMX512/ArtNet/sACN data, and also acting as splitters, converters and mergers which makes CrossGate a paragon of Sundrax's excellence in technology and entertainment culture. Wireless transmission of DMX512/ArtNet/sACN data is provided through Sundrax's proprietary BeDMX technology. BeDMX is hi-end technology for DMX512/ArtNet/sACN transmission between devices in 2.4 GHz ISM band with bidirectional communication and Adaptive Frequency Hopping (AFH) which guarantees near 100% resistance to radio frequency interference by a hop rate of 1600 hops per second. The device is equipped with 2 or 4 coaxial RP-SMA RF connectors for antenna connection configurable to work on reception or transmission.



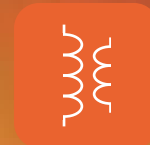
UltraStart



DMX Bi-Direct



Natural Heat  
Convection



Galvanically  
Isolated Ports



User-Friendly  
Web Interface



Supports RDM



Back-Up  
Transmitter



2 IP addresses  
per Device

Operating Temperature  
Storage Temperature  
Operating Relative  
Humidity (max)  
IP Rating  
Certification  
Warranty

## Environmental

0...+60°C  
-50...+70°C  
95%  
IP20  
CE, RoHS  
36 Month (Return to base)

Housing  
Material  
Dimensions, mm  
Weight  
Mounting

## Mechanical

Solid case  
Metal  
482(D) x 44(H) x 110(W)  
1.2 kg  
Rack 1 unit

Power supply  
Input power (max)  
Mains Fuse

## Power & Electrical

~90-250 VAC, 50/60 Hz  
5 W  
0.5 A

Supported protocols  
DMX data refresh rate  
Transmission range  
(standard antenna)  
Communication protocol  
RF band

## Control / Data Connections

ArtNet I, II, III/ sACN, DMX512, RDM  
44 Hz  
100m  
Bluetooth 2.0  
2.4 GHz

Setup  
Indication

## Configuration / Indication

Web interface  
LEDs for DMX and Ethernet activity

BeDMX ports  
Connectors  
Ethernet port  
Ethernet connectors

## Inputs / Outputs

2 or 4  
4 or 8 XLR (5 pins, 3 pins)  
10/100 Base-TX  
BeDMX ports 2 oder 4

- ▶ Easy installation and programming
- ▶ Saves profiles
- ▶ Master IP (never gets lost)
- ▶ Simple web interface
- ▶ Galvanic isolation of all ports
- ▶ Merging modes: http, ltp, auto, priority
- ▶ Configurable parameters of DMX signal
- ▶ Configurable DMX port direction

pro  
series

# CrossGate Solid (DMX/ArtNet/sACN)

Bidirectional converter, splitter, booster, intelligent merger



CrossGates are our top-of-the-line wireless hybrid devices combining wireless and Ethernet transmission of DMX512/ArtNet/sACN data, and acting also as splitters, converters and mergers which makes CrossGate a paragon of Sundrax's excellence in technology and entertainment culture. Wireless transmission of DMX512 data is provided through Sundrax's proprietary BeDMX technology. BeDMX is hi-end technology for DMX512/ArtNet/sACN data transmission between devices in 2.4 GHz ISM band with bidirectional communication and Adaptive Frequency Hopping (AFH) which guarantees near 100% resistance to radio frequency interference by a hop rate of 1600 hops per second. The device is equipped with 1 or 2 coaxial RP-SMA RF connectors for antenna connection configurable to work on reception or transmission.

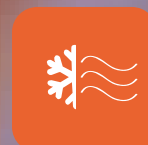
Sundrax Electronics



UltraStart



DMX Bi-Direct



Natural Heat Convection



Galvanically Isolated Ports



High Ingress Protection



Supports RDM



Back-Up Transmitter



2 IP addresses per Device



User-Friendly Web Interface

Designed for touring/ rental companies  
 DC or AC power source  
 1 button programming  
 Full galvanic isolation  
 Support DMX512, RDM  
 Bidirectional communication  
 Resistance to interference  
 Up to 1500m transmission range  
 Neutrik® XLR metal connectors  
 Lost data replacement

Operating Temperature	0...+60°C
Storage Temperature	-40...+70°C
Operating Relative Humidity (max)	95%
IP Rating	IP44
Certification	CE, RoHS
Warranty	36 Month (Return to base)
Housing Material	Solid case Metal
Dimensions, mm	115(D) x 55(H) x 90(W)
Weight	0.85 kg
Mounting	Surface, Truss
Power supply	~90-250 VAC, 50/60 Hz or 12-24 VDC
Max current consumption	0.1 A
Mains Fuse	0.5 A (VAC Modifikation)
Supported protocols	ArtNet I, II, III/ sACN, DMX512, RDM
DMX data refresh rate	44 Hz
Transmission range (standard antenna)	100m
Communication protocol	Bluetooth 2.0
RF band	2.4 GHz
Setup	Web interface, Buttons
Indication	LEDs for DMX and Ethernet activity
Wireless channels	1 or 2
DMX ports	1 isolated
Connectors	1 XLR(M), 1 XLR(F) (5 pins, 3 pins)
Ethernet port	10/100 Base-TX
Ethernet connectors	RJ-45/ EtherCon

## Environmental

## Mechanical

## Power & Electrical

## Control / Data Connections

## Configuration / Indication

## Inputs / Outputs

**Solid** series

# Joao Ferreira

Lighting Technician, Garrett S.A. Audiovisuais



— I believe SUNDRAX is a good bet. Good products, well constructed and reliable.

I found Sundrax at ProLight+Sound 2013 walking around the hall and trying to find a solution from a different brand with an affordable price and excellent efficiency. Just a week after exhibition Sundrax representatives sent me an ArtGate unit to test, and my jaw literally dropped when it successfully passed all the tests including very complicated programming and running the node at full capacity.

With an ArtNET system we can now have more DMX outputs and we can use as many consoles as we want at the shows with full back up by a single ArtGate. The demands of a light show are huge, there is a need to use 12, 24, 32 and sometimes more DMX universes. Usually all lighting digital consoles allow to use maximum 6 DMX outputs, the rest of the universes are only available over ArtNET.

Beside its simplicity, an ArtGate has one default IP to enter settings that never gets lost. It can also work as a transceiver, merger, booster and splitter which makes it a very flexible all-in-one unit. I can easily pass an output to an input or merge more than one input in a second. I can also set up different refresh rates for individual outputs.

One of the biggest events when ArtGate was particularly useful is opening ceremony of Maia European Capital of Sports 2014, where it backed up the show with 2 big consoles (around 400 fixtures). Right now ArtGates are installed in CCB (Centro Cultural the Belem), one of the most prestigious theatres in Portugal.

I believe SUNDRAX is a good bet. Good products, well-constructed and reliable.

## Garrett S.A. Audiovisuais

Founded in 1978 with headquarters in Lisbon, Garrett S.A. Audiovisuais provides audiovisual products and services in Portugal, Spain, Angola, Mozambique and other countries. Garrett exclusively distributes a number of prestige and recognized brands in a professional Audiovisual market.

# DMX Splitters

Series of multifunctional rack or truss mountable splitters for larger DMX networks boosting the signal to create a network of 5 or 10 additional DMX lines from DMX input. All input and output channels have full galvanic isolation. Remote Device Management (RDM) compatible. The devices are suitable for indoor or outdoor use. Power consumption is less than 5 watts.

# Splitter Pro

Multi-channel DMX512 splitter/repeater

Sundrax Electronics



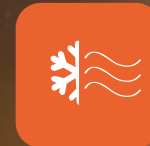
Splitter PRO is a series of multifunctional rack mountable splitters for larger DMX networks boosting the signal to create a network of 5 or 10 additional DMX lines from DMX input. All input and output channels have full galvanic isolation. Remote Device Management (RDM) compatible. The device is suitable for indoor use and rack mountable. Splitters are powered by 100-250V industrial AC mains, power consumption is less than 5 watts.



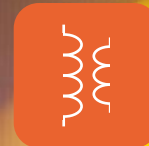
UltraStart



DMX Bi-Direct



Natural Heat Convection



Galvanically Isolated Ports



Supports RDM

## Environmental

Operating Temperature	0...+60°C
Storage Temperature	-50...+70°C
Operating Relative Humidity (max)	95%
IP Rating	IP20
Certification	CE, RoHS
Warranty	36 Month (Return to base)

## Mechanical

Housing	Small depth rack mounted
Material	Metal
Dimensions, mm	482(D) x 44(H) x 110(W)
Weight	1.2 kg
Mounting	Rack 1 unit

## Power & Electrical

Power supply	~90-250 VAC, 50/60 Hz
Input power (max)	5 W
Mains Fuse	0.5 A

## Control / Data Connections

Supported protocols	DMX512, RDM
DMX data refresh rate	44 Hz

## Configuration / Indication

Indication	LEDs for DMX inputs
------------	---------------------

## Inputs / Outputs

DMX inputs	1
DMX outputs	5 or 10
Connectors	XLR (5 pins, 3 pins) or EtherCON

- ▶ No buttons
- ▶ Ethercon or XLR (customer request)
- ▶ Time-tested in severe weather conditions
- ▶ 100% input data reservation
- ▶ Single or double input modes
- ▶ Input back up function

pro series

# Splitter Pro DUO

Multi-channel DMX512 splitter/repeater

Sundrax Electronics



Splitter DUO PRO is special device with 3 DMX inputs and 8 DMX outputs that operates as a regular splitter with 1 input and 8 outputs as well as two separated 1-to-4 splitters with fail-safe option. All input and output channels have full galvanic isolation. Remote Device Management (RDM) compatible. The device is suitable for indoor use and rack mountable. Splitters are powered by 100-250 V industrial AC mains, power consumption is less than 5 watts.

Operating Temperature	0...+60°C
Storage Temperature	-50...+70°C
Operating Relative Humidity (max)	95%
IP Rating	IP20
Certification	CE, RoHS
Warranty	36 Month (Return to base)

## Environmental

Housing Material	Small depth rack mounted Metal
Dimensions, mm	482(D) x 44(H) x 110(W)
Weight	1.2 kg
Mounting	Rack 1 unit

## Mechanical

Power supply	~90-250 VAC, 50/60 Hz, 50/60 Hz
Input power (max)	5 W
Mains Fuse	0.5 A

## Power & Electrical

Supported protocols	DMX512, RDM
DMX data refresh rate	44 Hz

## Control / Data Connections

Indication	LEDs for DMX inputs
------------	---------------------

## Configuration / Indication

DMX inputs	1 or 3
DMX outputs	8 or 10
Connectors	XLR (5 pins, 3 pins)

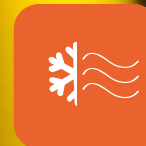
## Inputs / Outputs



UltraStart



DMX Bi-Direct



Natural Heat Convection



Galvanically Isolated Ports



Supports RDM

- No buttons
- Ethercon or XLR (customer request)
- Time-tested in severe weather conditions
- 100% input data reservation
- Single or double input modes
- Input back up function

pro series

# Splitter Arma DUO

Dual-channel DMX-512 splitter/repeater with five outputs



Splitter Arma DUO is dual-channel device with 6 DMX input/output ports that operates as a regular splitter with 1 input and 5 outputs as well as two separated 1-to-2 splitters. All input and output channels are mutually galvanically isolated. The device is suitable for outdoor use and has the highest levels of dust and moisture protection. The device is powered by 100-250V industrial AC mains, power consumption is less than 5 watts. Input, output DMX cables and power cable are connected to the device body via cable glands.

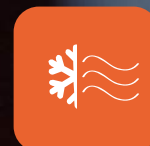
Sundrax Electronics



UltraStart



DMX Bi-Direct



Natural Heat Convection



Galvanically Isolated Ports



Highest Ingress Protection



Supports RDM

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)

## Environmental

Housing Material	Solid case Metal
Dimensions, mm	115(D) x 55(H) x 90(W)
Weight	0.85 kg
Mounting	Surface, Truss

## Mechanical

Power supply	~90-250 VAC, 50/60 Hz, 50/60 Hz
Input Power (max)	5 W
Mains Fuse	0.5 A

## Power & Electrical

Supported protocols	DMX512, RDM
DMX data refresh rate	44 Hz

## Control / Data Connections

Setup Indication	by DIP switches LED for DMX input
------------------	--------------------------------------

## Configuration / Indication

DMX input ports	1 or 2 isolated
DMX output ports	4 or 5 isolated
DMX connectors	15EDGVC terminal blocks

## Inputs / Outputs

- Die-cast, waterproof metal casing
- No buttons
- Time-tested in severe weather conditions
- Surface/truss mount



# Splitter Solid DUO

Splitter with single/double input modes



Splitter Solid DUO is special device with 2 DMX inputs and 4 DMX outputs that operates as a regular splitter with 1 input and 5 outputs as well as two separated 1-to-2 splitters. All input and output channels have full galvanic isolation. Remote Device Management (RDM) compatible. The device is suitable for indoor use. Splitters are powered by 100-250 V industrial AC mains, power consumption is less than 5 watts.

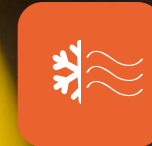
Sundrax Electronics



UltraStart



DMX Bi-Direct



Natural Heat Convection



Galvanically Isolated Ports



High Ingress Protection



Supports RDM

Operating Temperature	0...+60°C
Storage Temperature	-50...+70°C
Operating Relative Humidity (max)	95%
IP Rating	IP44
Certification	CE, RoHS
Warranty	36 Month (Return to base)

## Environmental

Housing	Solid case
Material	Metal
Dimensions, mm	171(D) x 55(H) x 121(W)
Weight	1.2 kg
Mounting	Surface, Truss

## Mechanical

Power supply	~90-250 VAC, 50/60 Hz, 50/60 Hz
Input power (max)	5 W
Mains Fuse	0.5 A (VAC modification)

## Power & Electrical

Supported protocols	DMX512, RDM
DMX data refresh rate	44 Hz

## Control / Data Connections

Indication	LEDs for DMX inputs activity
------------	------------------------------

## Configuration / Indication

DMX inputs	1 or 2
DMX outputs	5 or 4
Connectors	XLR (5 pins, 3 pins); PowerCON

## Inputs / Outputs

- ▶ XLR connectors
- ▶ Time-tested in severe weather conditions
- ▶ Single or double input modes

# Splitter DIN DUO

Splitter with single/double input modes



Splitter DIN DUO is special DIN rail mount device with 6 DMX input/output ports that operates as a regular splitter with 1 input and 5 outputs as well as two separated 1-to-2 splitters. All input and output channels have full galvanic isolation. Remote Device Management (RDM) compatible. The device is suitable for indoor use. Splitter is powered by 100-250 V industrial AC mains, power consumption is less than 5 watts.

Sundrax Electronics



UltraStart



DMX Bi-Direct



Natural Heat Convection



Galvanically Isolated Ports



Permanent Laser Engraving



Supports RDM

## Environmental

Operating Temperature	-40...+70°C
Storage Temperature	-50...+80°C
Operating Relative Humidity (max)	95%
IP Rating	IP20
Certification	CE, RoHS
Warranty	36 Month (Return to base)

## Mechanical

Housing	DIN mounted case (8 modules)
Material	Metal, Plastic
Dimensions, mm	142(D) x 105(H) x 75(W)
Weight	0.45 kg
Mounting	DIN rail in the power cabinet

## Power & Electrical

Power supply	~90-250 VAC, 50/60 Hz, 50/60 Hz
Input Power (max)	5 W
Mains Fuse	0.5 A

## Control / Data Connections

Supported protocols	DMX512, RDM
DMX data refresh rate	44 Hz

## Configuration / Indication

Indication	LED for DMX input
------------	-------------------

## Inputs / Outputs

DMX input ports	1 or 2
DMX output ports	5 or 4
DMX connectors	Terminal blocks 15 EDGVC

Supports bidirectional communication (DMX512 and RDM)  
Single or dual input modes  
Full galvanic isolation on all ports

**ARMA**  
series

# Wireless Splitter Pro

Multi-channel DMX512 splitter/repeater

Sundrax Electronics



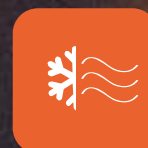
Wireless Splitter PRO is a series of multifunctional rack mountable splitters for larger DMX networks boosting the signal to create a network of 5 or 10 additional DMX lines from BeDMX and DMX inputs. BeDMX is hiend technology for transmission between devices in 2.4 GHz ISM band with bidirectional communication and Adaptive Frequency Hopping (AFH) which guarantees near 100% resistance to radio frequency interference by a hop rate of 1600 hops per second. All ports have full galvanic isolation. Remote Device Management (RDM) compatible. The device is suitable for indoor use and rack mountable. Splitters are powered by 100-250V industrial AC mains, power consumption is less than 5 watts.



UltraStart



DMX Bi-Direct



Natural Heat Convection



Galvanically Isolated Ports



Supports RDM

## Environmental

Operating Temperature	0...+60°C
Storage Temperature	-50...+70°C
Operating Relative Humidity (max)	95%
IP Rating	IP20
Certification	CE, RoHS
Warranty	36 Month (Return to base)

## Mechanical

Housing	Small depth rack mounted
Material	Metal
Dimensions, mm	482(D) x 44(H) x 110(W)
Weight	1.2 kg
Mounting	Rack 1 unit

## Power & Electrical

Power supply	~90-250 VAC, 50/60 Hz
Input power (max)	5 W
Mains Fuse	0.5 A

## Control / Data Connections

Supported protocols	DMX512, RDM, BeDMX
DMX data refresh rate	44 Hz

## Configuration / Indication

Indication	LEDs for DMX and BeDMX status
------------	-------------------------------

## Inputs / Outputs

BeDMX inputs	1
DMX outputs	5 or 10
Connectors	XLR (5 pins, 3 pins) or EtherCON

Designed for touring/  
rental companies  
No buttons  
Ethercon or XLR  
(customer request)  
Time-tested in severe  
weather conditions  
100% input data reservation  
Single or double input models  
Input back up function  
Bidirectional communication  
Resistance to interference  
Up to 1500m transmission  
range

pro series

# PWR DMX

Series of transceivers exploiting existing powerlines (110V/220V) to transmit DMX signal using PWRDMX technology that was developed by Sundrax. Unique PowerGate devices are mostly used in architectural lighting, however, sometimes it is viable to use them in touring/rental industry, and even for indoor lighting controls. PWRDMX and PowerGate device unveil hidden potential of existing wiring network, eliminating the need of new cabling. 100% reliable, low-noise and highspeed bi-directional DMX communication between PowerGate devices and lighting fixtures provide unlimited network topology.



# **DMX via Powerline**



# PowerGate Arma

DMX512 transceiver via 220/110V



PowerGate is a series of transceivers exploiting existing powerlines (110V/220V) to transmit DMX signal using PWRDMX technology that was introduced by Sundrax in 2007. Unique PowerGate devices are mostly used in architectural lighting, however, sometimes it is viable to use them in touring/rental industry, and even for indoor lighting controls. PWRDMX and PowerGate device unveil hidden potential of existing wiring network, eliminating the need of new cabling. 100% reliable, low-noise and highspeed bi-directional DMX communication between PowerGate devices and lighting fixtures provide unlimited network topology.

Sundrax Electronics



UltraStart



DMX Bi-Direct



Natural Heat Convection



Galvanically Isolated Ports



High Ingress Protection



Supports RDM

## Environmental

Operating Temperature	-0...+60°C
Storage Temperature	-50...+70°C
Operating Relative Humidity (max)	95%
IP Rating	IP44
Certification	CE, RoHS
Warranty	36 Month

## Mechanical

Housing Material	Solid case Metal
Dimensions, mm	171(D) x 55(H) x 121(W)
Weight	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

## Control / Data Connections

Supported protocols	MX512, RDM, PWR DM
DMX data refresh rate	44 Hz

## Configuration / Indication

Setup	Web-interface
Indication	LEDs for DMX activity

## Inputs / Outputs

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

DMX512 via 220/110V transceiver  
Die-cast metal casing  
No buttons  
Full galvanic isolation  
Up to 400 m transmission range

**ARMA**  
series 39|40

A large, light gray, stylized number '5' is positioned in the background, centered vertically and horizontally. The number has rounded corners and a thick, blocky appearance. The text 'Ethernet Switches' is overlaid on the left side of the number.

# **Ethernet Switches**

# ArtLAN Pro

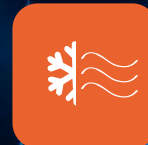
Fiber/Ethernet Gigabit switch  
for pro lighting industry



**NEW**

ArtLAN is professional quality switch designed specifically for pro lighting industry. Providing reliable Ethernet switching functionality, ArtLANs are equipped with eight RJ-45/EtherCON lockable ports for 10/100/1000 Mbps communication and two 2500 Mbps SFP interconnects for fiber optic connection. SFP provides opportunity to connect a wide variety of fiber cables in order to extend switching functionality throughout the network. Neutrik PowerCON locking AC connector provides a very rugged solution in combination with a locking device in order to guarantee a safe power connection. All Ethernet ports are Power-over-Ethernet (PoE) compatible.

Sundrax Electronics



Natural Heat  
Convection



Power  
over Ethernet



User-Friendly  
Web Interface

Operating Temperature	0...+60°C
Storage Temperature	-50...+70°C
Operating Relative Humidity (max)	95%
IP Rating	IP20
Certification	CE, RoHS
Warranty	36 Month (Return to base)

## Environmental

Housing Material	Solid case Metal
Dimensions, mm	482(D) x 44(H) x 220(W)
Weight	1.6 kg
Mounting	Rack 1 unit

## Mechanical

Power supply	~90-250 VAC, 50/60 Hz; PoE
Input Power (max)	5 W
Mains Fuse	0.5 A

## Power & Electrical

Setup Indication	Web interface LEDs for Ethernet and PoE activity
------------------	---

## Configuration / Indication

Ethernet port	8x 10/100/1000 Base-TX
Fiber Optic ports	2x 2500 Base-FX
Ethernet connectors	RJ-45/ EtherCon
Fiber Optic connectors	SFP

## Inputs / Outputs

- Easy installation and programming
- 10/100/1000 Mbps and 2500 Mbps data transmission
- Optical fiber connectivity via SFP interconnects
- Ethernet connectivity via lockable RJ-45 EtherCONS
- PoE available on all ports
- Profile stored internally
- 2 IPs (Master IP that never gets lost)

**Solid**  
series



# DMX Relay Switches

DMX Relay Switches with enhanced functionality. Able to switch 8 power circuits on and off by DMX commands, device provides a diagnostic feedback from up to 16 AC inputs via standard RDM communication.

# SwitchGate DIN

DMX switcher



SwitchGate DIN is DMX switcher with enhanced functionality. Able to switch 8 power circuits on and off by DMX commands, device provides a diagnostic feedback from up to 16 AC inputs via standard RDM communication. Mounted on standard DIN-rail, SwitchGate operates in power networks without any intermediate components.

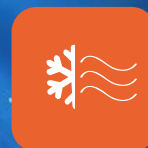
Sundrax Electronics



UltraStart



Permanent  
Laser Engraving



Natural Heat  
Convection



Galvanically  
Isolated Ports



Supports RDM

Operating Temperature  
Storage Temperature  
Operating Relative  
Humidity (max)  
IP Rating  
Certification  
Warranty

## Environmental

-40...+70°C  
-50...+80°C  
95%  
IP20  
CE, RoHS  
36 Month (Return to base)

Housing  
Material  
Dimensions, mm  
Weight  
Mounting

## Mechanical

DIN mounted case (12 modules)  
Metal, Plastic  
210(D) x 105(H) x 75(W)  
0.6 kg  
Power cabinet

Power supply  
Max voltage and current  
on outputs  
Max voltage at inputs  
Input Power (max)  
Mains Fuse

## Power & Electrical

~90-270 VAC, 50/60 Hz  
250 V, 5 A  
250 V  
5 W  
0.5 A

Control interface  
Supported protocols  
DMX data refresh rate

## Control / Data Connections

DMX 512  
DMX 512, RDM  
44 Hz

Setup  
Indication

## Configuration / Indication

DIP switchers, RDM  
LEDs for DMX activity

DMX connectors  
Relay outputs  
Voltage control inputs

## Inputs / Outputs

Terminal blocks 15 EDGVC  
8 (6 on/off, 2 changeover)  
0 or 16

Full galvanic isolation  
DMX interface  
16 independent inputs  
8 independent relay outputs  
Built-in power supply

**DIN**  
series

43 | 44

# LED Drivers

LED drivers with DMX512/RS-485 input. Separate compact devices LEDGate Compact with wireless or cable DMX input, and DIN rail mount LEDGate DIN. Powered from 12/24 VDC source, LED drivers are capable to control and dim up to 8 output lines for direct connection to LED equipment: duralight, driverless LED luminaires, etc, with independent short-circuit protection on each channel. Thanks to innovative embedded algorithms, LEDGates provide smooth, stepless regulation in full range of intensity.

# LEDGate DIN

Compact LED driver



LEDGate DIN is compact LED driver with DMX512/RS-485 input. Powered from 12/24 VDC source, LEDGate is capable to control and dim 4 or 8 output lines for direct connection with LED equipment: duralight, driverless LED luminaires, etc, with independent short-circuit protection on each channel. Thanks to innovative embedded algorithms, LEDGate provides a smooth, stepless regulation in full range of intensity. With no flickering.

Sundrax Electronics



UltraStart



Permanent  
Laser Engraving



Natural Heat  
Convection



Galvanically  
Isolated Ports



Supports RDM

Operating Temperature	-40...+70°C
Storage Temperature	-50...+80°C
Operating Relative Humidity (max)	95%
IP Rating	IP20
Certification	CE, RoHS
Warranty	36 Month (Return to base)

## Environmental

Housing Material	DIN mounted case (8 modules) Metal, Plastic
Dimensions, mm	142(D) x 105(H) x 75(W)
Weight	0.45 kg
Mounting	Power cabinet

## Mechanical

Power supply	12/24 VDC
Max current per channel	10 A
Total current on outputs	40 A
Input power (max)	1 kW
Mains Fuse	0.5 A

## Power & Electrical

Supported protocols	DMX512, RDM
Data refresh rate	44 Hz

## Control / Data Connections

Setup Indication	DIP switchers LEDs for DMX activity
------------------	--

## Configuration / Indication

LED outputs	4 or 8
DMX512 interfaces	1
Additional port	RS-485
DMX connectors	Terminal blocks 15EDGVC

## Inputs / Outputs

Smooth light regulation  
Independent short-circuit protection on each channel  
Direct connection with LED equipment

DIN  
series

45 | 46

# LEDGate Compact

Compact LED driver



LEDGate Compact is compact LED driver with DMX512 inputs. Powered from 12/24 VDC source, LEDGate is capable to control and dim 2 or 4 output lines for direct connection with LED equipment: duralight, driverless LED luminaires, etc, with independent short-circuit protection on each channel. Thanks to innovative embedded algorithms, LEDGate provides a smooth, stepless regulation in full range of intensity.

Sundrax Electronics



UltraStart



Natural Heat  
Convection



Galvanically  
Isolated Ports

Operating Temperature	-40...+70°C
Storage Temperature	-50...+80°C
Operating Relative Humidity (max)	95%
IP Rating	IP20
Certification	CE, RoHS
Warranty	36 Month (Return to base)

## Environmental

Housing Material	Surface mounted case Metal, Plastic
Dimensions, mm	86(D) x 38(H) x 54(W)
Weight	0.18 kg

## Mechanical

Power supply	12/24 VDC
Max current per output	20 A
Input power (max)	500 W

## Power & Electrical

Control interface	DMX512
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## Control / Data Connections

Setup Indication	Rotary switchers LEDs for DMX activity
------------------	---

## Configuration / Indication

LED outputs	2 or 4
DMX512 interfaces	1
Connectors	Screw terminals
Slave interface	1

## Inputs / Outputs

Smooth light regulation  
Independent short-circuit protection on each channel  
Direct connection with LED equipment

Compact  
series

# Wireless LEDGate Compact

Wireless Compact LED driver

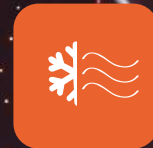


Wireless LEDGate Compact is compact LED driver with DMX512/RS-485 input. Powered from 12/24 VDC source, LEDGate is capable to control and dim 2 or 4 output lines for direct connection with LED equipment: duralight, driverless LED luminaires, etc, with independent short-circuit protection on each channel. The device is equipped with 2 coaxial RP-SMA RF connector for antenna connection configurable to work on reception. Thanks to innovative embedded algorithms, LEDGate provides a smooth, stepless regulation in full range of intensity.

Sundrax Electronics



UltraStart



Natural Heat Convection



Galvanically Isolated Ports

Operating Temperature	-40...+70°C
Storage Temperature	-50...+80°C
Operating Relative Humidity (max)	95%
IP Rating	IP20
Certification	CE, RoHS
Warranty	36 Month (Return to base)

## Environmental

Housing Material	Surface mounted case Metal, Plastic
Dimensions, mm	110(D) x 38(H) x 54(W)
Weight	0.2 kg

## Mechanical

Power supply	12/24 VDC
Max current per output	20 A
Input Power (max)	500 W

## Power & Electrical

Control interface	DMX512, BeDMX
Transmission range (standart antenna)	100 m
DMX data refresh rate	44 Hz
Supported protocols	DMX512, BeDMX
Communication protocol	Bluetooth 2.0
RF band	2.4 GHz

## Control / Data Connections

Setup Indication	Rotary switchers LED for DMX activity
------------------	--

## Configuration / Indication

LED outputs	2 or 4
DMX512 interfaces	1
Connectors	Screw terminals
Wireless interface	1
Slave interface	1

## Inputs / Outputs

Smooth light regulation  
Direct connection with LED equipment  
Independent short-circuit protection on each channel

Compact series 47|48

# Pixel Strip Drivers

Series of LED pixel strip controllers to map live effects, still images, and even videos on LED walls. Each pixel in an LED strip is individually controlled as a part of large matrix. 2 Ethernet ports and integrated splitter make it easy to chain devices and synchronize content live. You can use any live inputs to generate and trigger your effects in real time both for indoor and outdoor installations as the devices are IP65 class and waterproof.

# PixelGate Arma

Compact LED pixel strip driver



PixelGate Arma is a pixel strip controller developed by Sundrax Electronics for both pixel mapped projects at indoor and outdoor installations when you need to convert ArtNet (DMX over Ethernet) data to SPI protocol. IP65 case makes the device resistant to water, dust, fog, and smoke. Each individual pixel in a strip is controlled by PixelGate Arma supporting up to 4096 information channels with its 8 ports. Each device is equipped with 2 Ethernet ports and integrated splitter which allows chaining of PixelGates to enlarge the number of controlled pixels.

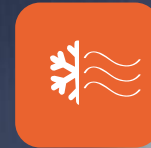
Sundrax Electronics



UltraStart



User-Friendly  
Web Interface



Natural Heat  
Convection



Highest Ingress  
Protection

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

## Environmental

Housing Material	Solid case Plastic
Dimensions, mm	115(D) x 55(H) x 65(W)
Weight	0.75 kg
Mounting	Surface, Truss

## Mechanical

Power supply	5/12/24/48 VDC
--------------	----------------

## Power & Electrical

Control interface Channels	ArtNet, ACN 4 or 8 SPI
----------------------------	---------------------------

## Control / Data Connections

Setup Indication	WEB Interface LED for Ethernet activity
------------------	--

## Configuration / Indication

Control outputs Ethernet ports Ethernet connectors	up to 8, TTL 3/5V 2 10/100 Base-TX 2 LSA-PLUS® connectors
--	---

## Inputs / Outputs

## Software Compatibility:

Elios  
Madrix  
LightJams  
LightingPad  
Jinx!  
Luminair  
+ any control software that supports ArtNet

Die-cast, waterproof metal casing  
No buttons  
Time-tested in severe weather conditions  
Integrated splitter  
2 Ethernet ports for chaining of devices

**ARMA**  
series 49 | 50





**DMX to DALI**

**DMX to 1-10V**

# DimGate Din

Hybrid DIN-rail dimmer



DimGate DIN is hybrid DIN-rail dimmer that converts DMX512 signal into 4 independent 110-230 VAC outputs up to 1.2 kW each to handle dimming of incandescent lamps. Additional 4 separate 1-10V (or 0-10V) outputs are supplied to integrate devices with 1-10V dimming drivers and electronic ballasts into DMX controlled surroundings.

With DIN rail mounting hassle-free installation and DMX input, DimGate DIN is ideal as indoor solution for mixed lighting control purposes in theatres, small venues, architectural installations, industrial, warehouse, and agricultural lighting.

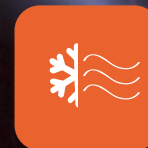
Sundrax Electronics



UltraStart



Permanent  
Laser Engraving



Natural Heat  
Convection



Galvanically  
Isolated Ports



Supports RDM

## Environmental

Operating Temperature	-40...+70°C
Storage Temperature	-50...+80°C
Operating Relative Humidity (max)	95%
IP Rating	IP20
Certification	CE, RoHS
Warranty	36 Month (Return to base)

## Mechanical

Housing	DIN mounted case (12 modules)
Material	Metal, Plastic
Dimensions, mm	210(D) x 105(H) x 75(W)
Weight	0.85 kg
Mounting	DIN rail

## Power & Electrical

Input Voltage	~90-250 VAC, 50 Hz
Max current per channel 230 V	5A
Maximum load power	1.2 kW per channel
Mains Fuse	0.5 A

## Control / Data Connections

Control interface	DMX512, RDM
Supported protocols	DMX 512, RDM
DMX data refresh rate	44 Hz

## Configuration / Indication

Setup	DIP switchers, RDM
Indication	DMX status LED

## Inputs / Outputs

DMX connectors	Terminal blocks
Relay outputs	4 AC and 4 analogue 1-10V
Number of DMX addresses	8

Two-in-one dimming methods  
DIN rail mounting  
Independent phase inputs  
for dimmable channels 230V  
Active analog outputs  
1-10V/0-10V, with up to 100  
drivers/ballasts connection  
capability

**DIN**  
series

# DaliGate DIN

DMX to DALI converter



DALIGate DIN is DIN rail mounted converter that converts ArtNET/sACN/DMX signal into DALI protocol to include DALI lighting fixtures into controllable lighting network.

With DIN rail mounting hassle-free installation and ArtNET/sACN/DMX input, DALIGate DIN is ideal as indoor solution for mixed lighting control purposes in theatres, small venues, architectural installations, industrial, warehouse, and agricultural lighting.

## Environmental

Operating Temperature	-40...+70°C
Storage Temperature	-50...+80°C
Operating Relative Humidity (max)	95%
IP Rating	IP20
Certification	CE, RoHS
Warranty	36 Month (Return to base)

## Mechanical

Housing	DIN mounted case (8 modules)
Material	Metal, Plastic
Dimensions, mm	142(D) x 105(H) x 75(W)
Weight	0.45 kg
Mounting	Power cabinet

## Power & Electrical

Power supply	~90-250 VAC, 50/60 Hz
Input Power	5W
Mains Fuse	0.5 A

## Control / Data Connections

Supported protocols	DALI, DMX512, RDM, ArtNet/sACN
DMX data refresh rate	44 Hz

## Inputs / Outputs

DMX ports	1 isolated
DMX connectors	Terminal blocks 15 EDGVC
Controllable output lines	2 or 4
Ethernet port	10/100 Base-TX

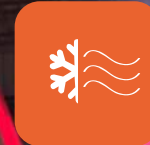
Sundrax Electronics



UltraStart



DMX Bi-Direct



Natural Heat Convection



Galvanically Isolated Ports



User-Friendly Web Interface



Supports RDM



Permanent Laser Engraving

Up to 4 DALI inputs/outputs  
DIN rail mounting  
ArtNET/sACN/RDM support

**DIN**  
series

# Compact series

Unique Compact Series converters are the smallest on the market yet they provide a fair bit of premium bidirectional ArtNet/sACN to DMX and DMX to LED converting options. Compact series include ArtGates Compact that are installed into standard socket wall or floor plates, or into fixtures as OEM boards. LEDGates Compact are tiny DMX to LED drivers with wireless option available in OEM version as well. All DMX ports are bidirectional i.e. may be configured as inputs or outputs. All ports are galvanically isolated. UltraStart Technology guarantees ready device in less than 3 seconds after power supply. RDM support. Some devices feature PoE power supply (802.15f).

# pro▶ series

Pro Series is special portfolio of 19" rackmounted (or clampmounted) professional DMX transceivers, DMX to ArtNet/sACN converters with fiber optic ports available pro switches, hybrids and splitters in smalldepth lightweight metal housing. From 2 to 8 ports per each device (up to 16 ports in 2unit Pro Deluxe series). Natural heat convection. All DMX ports are bidirectional i.e. may be configured as inputs or outputs. All ports are galvanically isolated. UltraStart Technology guarantees ready device in less than 3 seconds after power supply. RDM support. Some devices feature PoE power supply (802.15f).

# DIN series

Lightweight and compact DIN Series are the best choice for fixed cabinetbased installations with DIN rail mounting available. All the advantages of standard converters, designed in DIN cases. Spacesaving enclosures with resistant LaserText engraving. Natural heat convection. All DMX ports are bidirectional i.e. may be configured as inputs or outputs. All ports are galvanically isolated. UltraStart Technology guarantees ready device in less than 3 seconds after power supply. 15EDGV Terminal Blocks provide ultrafast dismount opportunities (UltraLock).

# ARMA

series

Arma series are carefully crafted “offtrack” devices excellent for any outdoor installations under any weather conditions: from Arctic winters to Sahara’s hottest dusty summers, successfully tested for tropicalization to work in the most humid areas. Extensive installations are easily handled by our trademark devices with 2 Ethernet ports which obviate the need of using Ethernet switches. Natural heat convection and moulded 3mm space effective thick metal case with sealed connectors provide highest ingress protection (IP65). All DMX ports are bidirectional i.e. may be configured as inputs or outputs. All ports are galvanically isolated. UltraStart Technology guarantees ready device in less than 3 seconds after power supply. RDM support. Some devices feature PoE power supply (802.15f). Different wall and clamp mounting options.

# Solid

series

Solid series has been specifically designed for adverse environments, hardly accessible and excessively dusty indoor locations. Solid Series converters have proved their excellent resistance to mechanical impact and any kind of stage smoke. These series include wireless DMX or ArtNet/sACN/RDM transceivers/receivers, bidirectional DMX to ArtGate/sACN converters, as well as hybrid CrossGates (wireless DMX/ArtNET/sACN transmitter/receivers). Natural heat convection and moulded 3mm space effective thick metal case with reinforced connectors provide high ingress protection (IP44). All ports are bidirectional i.e. may be configured as inputs or outputs. All DMX ports are galvanically isolated. UltraStart Technology guarantees ready device in less than 3 seconds after power supply. Different wall and clamp mounting options. Some devices feature PoE power supply (802.15f).



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