

ULTRA SOLUTIONS

Smart Networking & Control for Entertainment Lighting

Wireless · Ethernet · Fiber Optics · Powerline
Hybrids · Switches · LED & Pixel Drivers · Splitters

DITRA SOLUTIONS

ditra-solutions.com

About Us

Ditra Solutions develops high-quality, cost-effective hardware and software for stage, event, and entertainment lighting control. Whether for concerts, theaters, live productions, or large-scale events, our products are designed to deliver precision, stability, and efficiency.

Our Mission

is to provide flexible, reliable, and innovative solutions tailored to the evolving needs of the industry.

Our Focus

is seamless integration, user-friendly operation, and affordable excellence to empower lighting professionals worldwide.

30+ solutions

10+ years of experience



DMX to Ethernet CONVERTERS

A range of versatile devices designed for bi-directional DMX512-Ethernet conversion, supporting a wide array of network protocols for DMX data transmission, including ArtNet I, II, III, 4, sACN draft/release, KiNet v1, v2, and RTTrPL. Multiple merging modes are available–HTP, LTP, Auto, Priority, Backup, Trigger, and XFade (see Merging Options).

Our Ethernet converters can seamlessly merge up to four incoming ArtNet/sACN/KiNet/RTTrPL streams in any combination into a DMX512 output, ensuring reliable show backup. All DMX ports are fully configurable as either inputs or outputs.

Devices are managed via a web interface, ArtGate utility, or any standard software supporting ArtNet for effortless control and integration.

Merging Modes

HTP (Highest Takes Precedence): The highest DMX value from multiple sources is used.
LTP (Latest Takes Precedence): The most recent DMX signal received is prioritized.
AUTO (Smart Merging Mode): The last modified signal takes precedence dynamically.
PRIORITY (sACN Priority-Based Control): The console with the highest priority tag for a given universe controls the output.
BACKUP (Failover Mode): A backup network universe or a local static scene is triggered if the main source fails.
TRIGGER & X-FADE (Dynamic Switching): Seamlessly transition between lighting desks, media servers, and other control sources.

Note: Merged data can be output to physical DMX ports and/or looped back to Ethernet as a new network universe.

DMX TO ETHERNET



Get in Touch

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ditra-solutions

And Don't Miss

our other solutions for outdoor, street, and architectural lighting control–bringing the same commitment to quality and innovation across various lighting applications

ARTGATE PRIME

Bidirectional DMX-ArtNet/sACN converter, splitter, booster, intelligent merger

Rack mounted ArtGate PRIME is smart solution to transmit more DMX universes through single Ethernet LAN 10/100Base-T link since most lighting consoles and lighting software in the market already have ArtNet output by default. Merges two incoming ArtNet streams as well as any combination of ArtNet and DMX streams into DMX output for perfect show backup. ArtGate PRIME merges up to 4 incoming ArtNet streams as well as any combination of ArtNet, sACN, or DMX streams to outputs for perfect show backup. Configuration is performed through web-interface or ArtGate Settings utility. Supplied in 4-port and 8-port modifications.



- 4 or 8 DMX512 ports (incl. 2 paired M+F)
- 2 Ethernet ports (EtherCON) with switch functionality
- PoE support
- Maximum surge protection – power supply optimized for voltage from 90 to 315 V
- Simple user-friendly web interface
- Configurable DMX port direction and parametres
- Smart DMX output feature
- Supported network protocols: ArtNet I,II,III,4, sACN draft/release, KiNet v1,v2, RTTrPL
- Full RDM E1.20 support (controller/responder)
- Ability to work as standalone splitter/merger
- Fastest recovery after short power failure
- PowerCON TRUE1 inlet+outlet combination
- Trigger inputs for external events and alarms
- DHCP support
- IP address conflict detection

Prime series

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)

Power & Electrical

Power supply	~90-277 VAC, 50/60 Hz, PoE 802.15f mode A, B
Input power (max)	5 W

Control / Data Connections

Supported protocols	DMX512, RDM, ArtNet I, II, III, IV, sACN draft, release, KiNet v1, v2 , RTTrPL
DMX data refresh rate	44 Hz

Inputs / Outputs

DMX ports	4 or 8 DMX512 ports
Connectors	2x male XLRs + 4x or 8x female XLRs (3- or 5-pin), 2 RJ45/EtherCon, terminal block

UltraStart · DMX Bi-Direct · User-Friendly Web Interface · Power over Ethernet · Trigger Input

2 IP adresses per Device · Supports RDM · Galvanically Isolated Ports · Natural Heat Convection

ARTGATE GUARD

Bidirectional converter, splitter, booster, intelligent merger

Multifunctional converters that translate Ethernet protocols (ArtNet, sACN) into DMX to control more lighting fixtures through single Ethernet LAN 10/100Base-T link. Incredible amount of universes thanks to second Ethernet port adding cascading availability through integrated switch. All DMX ports may be used as inputs or outputs. Compatible with any hardware and software supporting ArtNet and sACN protocols. Configuration through web-based management page and ArtGate Manager utility.
Tough and compact metal enclosure (IP44) resistant to dust and smoke. ArtGates Guard may be powered through Ethernet (PoE) without power cabling.



- PoE support
- Lockable RJ-45 EtherCONs
- Full protection from dust and smoke
- Maximum surge protection from 100 to 315 V
- Full galvanic isolation of all ports
- Easy installation and programming
- Configurable DMX port direction
- Configurable parameters of DMX signal
- Support network protocols: ArtNet I,II,III,4, sACN draft/release, KiNet v1,v2, RTTrPL
- Variable merging options: HTP, LTP, Auto, Priority, Backup, Trigger, XFade
- Full RDM E1.20 support (controller/responder)
- Static scenes (presets) stored in non-volatile memory
- Works as standalone splitter/merger
- Minimum loading time
- Master IP that never gets lost

GUARD SERIES

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)

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	DMX512, RDM, ArtNet I, II, III, IV, sACN draft, release, KiNet v1, v2 , RTTrPL
DMX data refresh rate	44 Hz

Inputs / Outputs

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

UltraStart · DMX Bi-Direct · User-Friendly Web Interface · Power over Ethernet · High Ingress Protection

2 IP adresses per Device · Supports RDM · Galvanically Isolated Ports · Natural Heat Convection

GIGAJET PRIME

DMX-Ethernet node with fibre optic link and gigabit switch

Multifuctional rack mounted bidirectional converter, splitter, booster, intelligent merger transmitting DMX/ArtNet/sACN/KiNet/ RTTrPL streams in Gigabit Ethernet (10/100/1000 Base-T) and fibre optic networks. Fibre optic increases maximum length of direct connection between devices up to 2000 meters (using multimode SFPmodules), or up to 10 km (using single mode SFP modules).The device also acts as 5-port Ethernet switch working in 10/100/1000BASE-TX networks.



- 8 DMX512 ports (XLR 5-pin, 2 paired)
- Integrated fibre optic port (SFP module)
- Gigabit network switch
- 5 Ethernet ports (EtherCON)
- PoE support
- Maximum surge protection – power supply optimized for voltage from 90 to 315 V
- Simple user-friendly web interface
- Configurable DMX port direction and parametres
- Supported network protocols: ArtNet I,II,III,4, sACN draft/release, KiNet v1,v2, RTTrPL
- Full RDM E1.20 support (controller/responder)
- Static scenes (presets) stored in non-volatile memory
- Ability to work as standalone splitter/merger
- Fastest recovery after short power failure
- PowerCON TRUE1 inlet+outlet combination
- Trigger inputs for external events and alarms
- DHCP support
- IP address conflict detection

Prime series

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)

Power & Electrical

Power supply	~100-277 VAC, 50/60 Hz; PoE 802.3af mode A, B
Input Power (max)	5 W
Mains Fuse	0.5 A

Control / Data Connections

Supported protocols	DMX512, RDM, ArtNet I, II, III, IV, sACN draft, release, KiNet v1, v2 , RTTrPL
DMX data refresh rate	44 Hz

Inputs / Outputs

DMX connectors	2x XLR (M), 8x XLR (F) (5-pin)
Ethernet ports	5x RJ-45/ EtherCON 10/100/1000 Base-TX
Fibre Optic connectors	SFP module
Trigger inputs	2

UltraStart · Back-Up Transmitter · User-Friendly Web Interface · Power over Ethernet · Trigger Input

2 IP adresses per Device · Supports RDM · Galvanically Isolated Ports · Natural Heat Convection · Gigabit Ethernet switch

GIGAJET20 PRIME

DMX-Ethernet node with fibre optic link and gigabit switch

Multifuctional rack mounted bidirectional converter, splitter, booster, intelligent merger transmitting DMX/ArtNet/sACN/KiNet/ RTTrPL streams in Gigabit Ethernet (10/100/1000 Base-T) and fibre optic networks up to 2 or 10 km depending on SFP module mode. The device may be also used as 3-port Ethernet switch.



- 20 DMX512 ports (XLR 5-pin, 4 paired)
- Integrated fibre optic port (SFP module)
- Gigabit network switch
- 3 Ethernet ports (EtherCON)
- PoE support
- Maximum surge protection – power supply optimized for voltage from 90 to 315 V
- Simple user-friendly web interface
- Configurable DMX port direction and parametres
- Supported network protocols: ArtNet I,II,III,4, sACN draft/release, KiNet v1,v2, RTTrPL
- Full RDM E1.20 support (controller/responder)
- Static scenes (presets) stored in non-volatile memory
- Ability to work as standalone splitter/merger
- Fastest recovery after short power failure
- PowerCON TRUE1 inlet+outlet combination
- Trigger inputs for external events and alarms
- DHCP support
- IP address conflict detection

Prime series

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)

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	DMX512, RDM, ArtNet I, II, III, IV, sACN draft, release, KiNet v1, v2 , RTTrPL
DMX data refresh rate	44 Hz

Inputs / Outputs

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

UltraStart · Back-Up Transmitter · User-Friendly Web Interface · Power over Ethernet · Trigger Input

2 IP adresses per Device · Supports RDM · Galvanically Isolated Ports · Natural Heat Convection

ARTGATE SHIELD

Bidirectional converter, splitter, booster, intelligent merger

Multifunctional waterproof converters perfect for outdoor use. Translate Ethernet protocols (ArtNet, sACN) into DMX to control more lighting fixtures through single Ethernet LAN 10/100Base-T link. Incredible amount of universes thanks to second Ethernet port adding cascading availability through integrated switch.
All DMX ports may be used as inputs or outputs. Compatible with any hardware and software supporting ArtNet and sACN protocols. Configuration through web-based management page and ArtGate Manager utility. Tough and compact waterproof metal enclosure (IP65) specifically crafted for outdoor use. ArtGates Shield may be powered through Ethernet (PoE).



- PoE support
- Full protection from dust and smoke
- Maximum surge protection from 100 to 315 V
- Full galvanic isolation of all ports
- Easy installation and programming
- Configurable DMX port direction
- Configurable parameters of DMX signal
- Support network protocols: ArtNet I,II,III,4,
- sACN draft/release, KiNet v1,v2, RTTrPL
- Variable merging options: HTP, LTP, Auto, Priority, Backup, Trigger, XFade
- Full RDM E1.20 support (controller/responder)
- Static scenes (presets) stored in non-volatile memory
- Works as standalone splitter/merger
- Minimum loading time
- Master IP that never gets lost

SHIELD series

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)

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	DMX512, RDM, ArtNet I, II, III, IV, sACN draft, release, KiNet v1, v2 , RTTrPL
DMX data refresh rate	44 Hz

Inputs / Outputs

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

UltraStart · DMX Bi-Direct · User-Friendly Web Interface · Power over Ethernet · Highest Ingress Protection

2 IP adresses per Device · Supports RDM · Galvanically Isolated Ports · Natural Heat Convection

ARTGATE RAIL

Bidirectional converter, splitter, booster, intelligent merger

DIN RAIL mounted multifunctional converters that translate Ethernet protocols (ArtNet, sACN) into DMX to control more lighting fixtures through single Ethernet LAN 10/100Base-T link. Trigger inputs provide ability to launch pre-programmed DMX scenarios when triggers (e.g. fire alarm) are activated even if the console is down.
Two RJ-45 Ethernet inputs and pluggable 15EDGVC terminal blocks for seamless connection. Up to 8 DMX outputs per one device, second Ethernet port adds cascading availability through integrated switch. May be powered through Ethernet (PoE) without power cabling.



RAIL SERIES

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)

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	DMX512, RDM, ArtNet I, II, III, IV, sACN draft, release, KiNet v1, v2 , RTTrPL
DMX data refresh rate	44 Hz

Inputs / Outputs

DMX ports	4 or 8 isolated
Connectors	Terminal blocks 15 EDGVC
Ethernet ports	1x or 2x 10/100 Base-TX
Ethernet connectors	RJ-45

- PoE support
- Full protection from dust and smoke
- Maximum surge protection from 100 to 315 V
- Full galvanic isolation of all ports
- Easy installation and programming
- Configurable DMX port direction
- Configurable parameters of DMX signal
- Support network protocols: ArtNet I,II,III,4, sACN draft/release, KiNet v1,v2, RTTrPL
- Variable merging options: HTP, LTP, Auto, Priority, Backup, Trigger, XFade
- Full RDM E1.20 support (controller/responder)
- Static scenes (presets) stored in non-volatile memory
- Works as standalone splitter/merger
- Minimum loading time
- Master IP that never gets lost

UltraStart · DMX Bi-Direct · User-Friendly Web Interface · Power over Ethernet · High Ingress Protection

2 IP adresses per Device · Supports RDM · Galvanically Isolated Ports · Natural Heat Convection · Permanent Laser Engraving

ARTGATE NANO

Bidirectional converter, splitter, booster, intelligent merger



Ultra-small DMX<->ArtNet/sACN converter for installation into wall sockets, stage equipment, lighting fixtures. ArtGate Nano converts DMX512 to ArtNet/sACN in both directions. Various merging modes available: HTP, LTP, AUTO, PRIORITY, OVERLAY. Supplied in 1-port and 2-port modifications (inputs or outputs). Compatible with any hardware and software supporting ArtNet and sACN protocols. Configuration is performed through web-based management page. Available as OEM board to be integrated into your fixtures and installations.

- PoE support
- Easy installation and programming
- Configurable DMX port direction
- Configurable parameters of DMX signal
- Support network protocols: ArtNet I,II,III,4, sACN draft/release, KiNet v1,v2, RTTrPL
- Variable merging options: HTP, LTP, Auto, Priority, Backup, Trigger, XFade
- Full RDM E1.20 support (controller/responder)
- Master IP that never gets lost

UltraStart · DMX Bi-Direct · User-Friendly Web Interface · Power over Ethernet

2 IP adresses per Device · Supports RDM

NANO SERIES

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)

Power & Electrical

Power supply	PoE
Input Power (max)	1W

Control / Data Connections

Supported protocols	ArtNet I,II,III,4, sACN draft/release, KiNet v1,v2, RTTrPL
DMX data refresh rate	44 Hz

Inputs / Outputs

DMX ports	1 or 2
DMX connectors	1 XLR(M), 1 XLR(F)
Ethernet ports	10/100 Base-TX
Ethernet connectors	LSA-PLUS® connector

ARTGATE BARE

OEM bidirectional DMX512-Ethernet converter, splitter, booster, intelligent merger

OEM bidirectional DMX512-Ethernet converter, splitter, booster, intelligent merger, for installation in stage equipment, lighting fixtures, etc. Supports wide range of network protocols for DMX data transmission: ArtNet I,II,III,4, sACN draft/release, KiNet v1,v2, RTTrPL.
Various merging modes available: HTP, LTP, Auto, Priority, Backup, Trigger, XFade (see Merging options). Able to merge up to 4 incoming ArtNet/sACN/KiNet/RTTrPL streams in any combination into DMX512 output for perfect show backup. All DMX ports may be used as inputs or outputs. Can be managed by web interface, ArtGate utility, or any standard software supporting ArtNet. Available as non-OEM to be integrated into stage floors or wall sockets.



- Small (67 x 54 x 15 mm) OEM board
- Up to 2 DMX ports (RJ45 socket with optional RJ45-to-XLR5F adapter)
- 1 Ethernet port
- Powered from PoE or external +5VDC
- Easy installation and programming
- Simple user-friendly web interface
- Configurable DMX port direction
- Configurable parameters of DMX signal
- Support network protocols: ArtNet I,II,III,4, sACN draft/release, KiNet v1,v2, RTTrPL
- Variable merging options: HTP, LTP, Auto, Priority,
- Backup, Trigger, XFade.
- Merged data may be outputted to physical DMX ports, and/or looped back to Ethernet as new network universe
- Full RDM E1.20 support (controller/responder)
- Static scenes (presets) stored in non-volatile memory
- Ability to work as standalone splitter/merger
- Minimum loading time, fastest recovery after short power failure
- Master IP that never gets lost

UltraStart · DMX Bi-Direct · User-Friendly Web Interface · Power over Ethernet

2 IP adresses per Device · Supports RDM · Galvanically Isolated Ports

BARE SERIES

Environmental

IP Rating	IP20, 0°C – +60°C
Certification	CE, RoHS
Warranty	36 Month (Return to base)

Power & Electrical

Power supply	PoE
Input Power (max)	1W

Control / Data Connections

Supported protocols	DMX512, RDM, ArtNet I, II, III, IV, sACN draft, release, KiNet v1, v2 , RTTrPL
DMX data refresh rate	44 Hz

Inputs / Outputs

DMX ports	2
Connectors	RJ-45 with optional XLR(M or F) (5pin) adapter
Ethernet ports	10/100 Base-TX
Ethernet connectors	RJ-45

Powerline to DMX
CONVERTERS

Series of DMX signal converters that utilize existing power lines (110V/220V) to transmit DMX signals using DITRA's proprietary PWRDMX technology. These unique devices are primarily designed for architectural lighting but can also be effectively used in the touring/rental industry and even for indoor lighting control. By converting power lines into a DMX transmission network, PWRDMX and PowerGate eliminate the need for additional cabling, unlocking the full potential of existing wiring infrastructure. Offering 100% reliable, low-noise, and high-speed bi-directional DMX communication, PowerGate enables flexible and limitless network topologies for seamless lighting control.

POWER LINE TO DMX

PWR DMX



POWERGATE

Powerline to DMX512 Converter via 220/110V

PowerGate is a series of DMX transceivers that utilize existing power lines (110V/220V) to transmit DMX signals via DITRA's PWRDMX technology. These converters are an ideal solution in scenarios where installing new cabling or using wireless transmission is impractical – such as upgrading historic facades, architectural monuments, landmarks, and in-ground lighting to DMX control.

PowerGate devices support ArtNet and sACN input via a single Ethernet LAN 10/100Base-T link and offer up to four DMX outputs. All DMX ports are configurable through a web-based management interface, and each PowerGate unit can function as either a transmitter or a receiver, providing flexibility in system design.

- UltraStart
- DMX Bi-Direct
- Supports RDM
- Galvanically Isolated Ports
- Power over Ethernet
- Natural Heat Convection



	SHIELD series Highest Ingress Protection	GUARD SERIES High Ingress Protection
Environmental		
Operating Temperature	-40...+70°C	0...+60°C
Storage Temperature	-50...+70°C	-50...+70°C
Operating Relative Humidity (max)	95%	95%
IP Rating	IP65 for outdoor use	IP44
Certification	CE, RoHS	CE, RoHS
Warranty	36 Month (Return to base)	36 Month (Return to base)
Power & Electrical		
Power supply	~90-270 VAC, 50/60 Hz; PoE	~90-250 VAC, 50/60 Hz; PoE
Input Power (max)	5 W	5 W
Mains Fuse	0.1 A	0.5 A (VAC modification)
Control / Data Connections		
Supported protocols	DMX512, RDM, ArtNet I, II, III, IV, sACN , PWRDMX	DMX512, RDM
DMX data refresh rate	44 Hz	44 Hz
Inputs / Outputs		
DMX ports	1 or 4 isolated	2 or 4 isolated
DMX connectors	15EDGVC terminal blocks	XLR (M), XLR (F) (5 pins, 3 pins)
Ethernet ports	1 (10/100 Base-TX)	1 (10/100 Base-TX)
Ethernet connectors	LSA-PLUS® connector	RJ-45

>be DMX

Wireless DMX / ArtNET / sACN

BeDMX is wireless technology by DITRA Solutions specifically developed for wireless DMX/RDM or ArtNet I, II, III, IV/ sACN, DMX512, RDM, KiNet, RTTrPL transceivers RadioGates as well as LED drivers and DMX splitters. BeDMX works in international license free 2.4 GHz ISM band based on Bluetooth 5.0 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 and Hybrids

DMX or DMX+Ethernet Transceivers

RadioGates are designed to transfer DMX/RDM or ArtNet I, II, III, IV/ sACN, DMX512, RDM, KiNet, RTTrPL data wirelessly in intellectual lighting control systems through DITRA'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 GUARD

Wireless 2.4 GHz DMX transceiver

These RadioGate devices are designed to transfer DMX data wirelessly in intellectual lighting control systems through DITRA's 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. The device is equipped with 1 or 2 coaxial RP-SMA RF connectors for antenna connection configurable to work on reception or transmission. Available as IP65 modification (RadioGate Shield) and with integrated Ethernet converter (RadioGate Plus Guard).



>be DMX

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

GUARD SERIES

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 (Return to base)

Power & Electrical

Power supply	~90-250 VAC, 50/60 Hz or 12-24 VDC
Input Power (max)	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 5.0, BeDMX
RF band	2.4 GHz

Inputs / Outputs

Wireless channels	1
DMX ports	2 isolated (depends on modification)
Connectors:	2 XLR(M), 2 XLR(F) (5 pins)

UltraStart · DMX Bi-Direct · Natural Heat Convection · Galvanically Isolated Ports · Supports RDM · Back-Up Transmitter · High Ingress Protection

RADIOGATE PLUS GUARD

Wireless DMX/ArtNet/sACN transceiver

Hybrid DMX-ArtNet/sACN converter using Ethernet LAN 10/100Base-T to transmit DMX signal and providing hot backup through wireless 2.4 GHz channels. Smart choice for touring as a spare device that covers both transmission technologies. Packed into roadworthy die-cast metal cases, fully protected from fog and smoke, with galvanically isolated ports. Compatible with any hardware and software supporting ArtNet and sACN protocols. Wireless transmission up to 1500 metres distance with enhanced antennas. Adaptive Frequency Hopping (AFH) helps to avoid disturbance from any other wireless equipment. Available as IP65 modification (RadioGate Plus Shield) and as 1-universe DMX-only transceiver (RadioGate Guard).



>be DMX

GUARD SERIES

Environmental

Operating Temperature	0...+60°C
Storage Temperature	-50...+80°C
Operating Relative Humidity (max)	95%
IP Rating	IP44
Certification	CE, RoHS
Warranty	36 Month (Return to base)

Power & Electrical

Power supply	~90-250 VAC, 50/60 Hz or 12-24 VDC
Input Power (max)	0.1 A

Control / Data Connections

Supported protocols	DMX512, RDM, ArtNet I, II, III, IV, sACN draft release, KiNet v1, v2 RTTrPL sACN draft release
DMX data refresh rate	44 Hz
Transmission range (standard antenna)	200m
Communication protocol	Bluetooth 5.0
RF band	2.4 GHz

Inputs / Outputs

DMX ports:	2 or 4 isolated: 2-4 XLR(M), 2-4 XLR(F) (5 pins)
Wireless channels:	2
Ethernet ports:	10/100 Base-TX, RJ-45/ EtherCon

- 2 or 4 isolated DMX ports
- AC or DC power supply
- Resistant to interefence beDMX protocol based on Bluetooth 5.0 protocol
- Minimum loading time, fastest recovery after short power failure
- Master IP that never gets lost
- Maximum surge protection from 100 to 315 V
- Full galvanic isolation of all ports
- Simple user-friendly web interface or two-button programming
- Configurable DMX port direction

UltraStart · DMX Bi-Direct · Back-Up Transmitter · Power over Ethernet · High Ingress Protection · 2 IP adresses per Device · Supports RDM · Galvanically Isolated Ports · Natural Heat Convection

RADIOGATE SHIELD

Wireless 2.4 GHz DMX transceiver

RadioGate Shield provides non-stop bidirectional DMX communication between devices in 2.4 GHz ISM with RDM feedback. Maximum distance is up to 1500 metres with directional antennas. Adaptive Frequency Hopping (AFH) helps to avoid disturbance from any other wireless equipment. RadioGate is versatile transmitter+receiver, with one-button configuration. Packed into waterproof metal enclosure (IP65) specifically crafted for outdoor use, with galvanically isolated ports, RadioGate Shield is a smart choice when wired DMX transmission is hindered. Available also with Ethernet (RadioGate Plus Shield) or as IP44 modification for indoor application (RadioGate Guard).



>be DMX

- Maximum reliability of connection based on Bluetooth 5.0 protocol (beDMX)
- Maximum resistance to interference through Adaptive Frequency Hopping (AFH)
- One-button programming, simple configuration
- Full RDM support
- Diagnostics of DMX transmission quality
- LED indication of communication status on transmitter
- All devices are cross functional transmitter+receiver
- Full galvanic isolation of all ports
- Maximum surge protection – power supply optimized for voltage from 100 to 300 V
- DC 12-24V modification

SHIELD series

Environmental

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

Power & Electrical

Power supply	~100-250 V, 50/60 Hz or DC 12-24V
Input Power (max)	0.1 A

Control / Data Connections

Supported protocols	DMX512, RDM, ArtNet I, II, III, IV, sACN draft, release, KiNet v1, v2, RTTrPL sACN draft, release
DMX data refresh rate	44 Hz
Transmission range	200 m (regular antenna), 1500 m (directional antenna)
Communication protocol	beDMX
RF band	2.4 GHz

Inputs / Outputs

Wireless channels	1
DMX ports	1
Connectors:	15EDGVC terminal blocks

UltraStart · DMX Bi-Direct · Natural Heat Convection · Galvanically Isolated Ports

Supports RDM · Back-Up Transmitter · Highest Ingress Protection

RADIOGATE PLUS SHIELD

Waterproof DMX wireless transceiver + DMX-Ethernet converter

RadioGate Plus Shield provides non-stop bidirectional DMX communication (up to 4 universes) between devices in 2.4 GHz ISM with RDM feedback and integrated bidirectional DMX/ArtNet/sACN converter. Maximum distance is up to 1500 metres with directional antennas. Adaptive Frequency Hopping (AFH) helps to avoid disturbance from any other wireless equipment. RadioGate is versatile transmitter+receiver, with one-button configuration. Packed into waterproof metal enclosure (IP65) specifically crafted for outdoor use, with galvanically isolated ports, RadioGate Plus Shield is a smart choice when wired DMX transmission is hindered. Available as DMX-only modification (RadioGate Shield) or IP44 modification for indoor application (RadioGate Plus Guard).



>be DMX

- 2 or 4 DMX universes depending on modification
- Maximum reliability of connection based on Bluetooth 5.0 protocol (beDMX)
- Maximum resistance to interference through Adaptive Frequency Hopping (AFH)
- One-button programming, simple configuration
- Ethernet port and integrated DMX/ArtNet/sACN converter PoE support
- Custom routing and merging of DMX streams, setup via web interface
- Full RDM support
- Diagnostics of DMX transmission quality
- LED indication of communication status on transmitter
- All devices are cross functional transmitter+receiver
- Full galvanic isolation of all ports
- Maximum surge protection – power supply optimized for voltage from 100 to 300 V
- DC 12-24V modification

SHIELD series

Environmental

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

Power & Electrical

Power supply	~100-250 VAC, 50/60 Hz or 12-24 VDC
Input Power (max)	0.1 A

Control / Data Connections

Supported protocols	DMX512, RDM, ArtNet I, II, III, IV, sACN draft release, KiNet v1, v2 RTTrPL sACN draft release
DMX data refresh rate	44 Hz
Transmission range (standard antenna)	200m (regular antenna), 1500 m (directional antenna)
Communication protocol	beDMX
RF band	2.4 GHz

Inputs / Outputs

Wireless channels	2 (2 or 4 DMX universes)
DMX ports	2 or 4
Ethernet ports	1
DMX connectors	15 EDGVC terminal blocks

UltraStart · DMX Bi-Direct · Back-Up Transmitter · Power over Ethernet · Highest Ingress Protection

Supports RDM · Galvanically Isolated Ports · Natural Heat Convection

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 PRIME

Single or double input DMX512 splitter/repeater

Splitter Prime is a series of multifunctional rack mountable splitters with 1 or 3 DMX inputs and 8 or 10 DMX outputs that operates as a regular splitter with 1 input and 8 (or 10) outputs as well as two separated 1-to-4 splitters with fail-safe option, depending on modification. 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.



- No buttons
- Ethercon or XLR (customer request)
- 100% input data reservation
- Single or double input modes
- Input back up function
- DMX Thru port

Prime series

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)

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

Inputs / Outputs

DMX input	1 or 3, each with DMX Thru
DMX outputs	5, 8, or 10
Connectors	XLR or EtherCON

UltraStart · DMX Bi-Direct · Supports RDM · Galvanically Isolated Ports · Natural Heat Convection

SPLITTER WIRELESS PRIME

Multi-channel DMX512 splitter/repeater

Wireless Splitter Prime 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 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. 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.



- Designed for touring/ rental companies
- No buttons
- Ethercon or XLR (customer request)
- 100% input data reservation
- Input back up function
- Bidirectional communication
- Resistance to interference
- Up to 1500m transmission range

Prime series

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)

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

Inputs / Outputs

BeDMX inputs	1
DMX outputs	5 or 10
Connectors:	XLR or EtherCON

UltraStart · DMX Bi-Direct · Natural Heat Convection · Galvanically Isolated Ports · Supports RDM

SPLITTER DUO SHIELD

Double input DMX-512 splitter/repeater with five outputs

Splitter Duo Shield is double input 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.



SHIELD series

Environmental

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

Power & Electrical

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

Control / Data Connections

Supported protocols	DMX512, RDM
DMX data refresh rate	44 Hz

Inputs / Outputs

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

- 100% input data reservation
- Single or double input modes
- Input back up function
- Die-cast, waterproof metal casing (IP65)
- No buttons
- Time-tested in severe weather conditions
- Surface/truss mount
- Metal or plastic cable glands

UltraStart · DMX Bi-Direct · Galvanically Isolated Ports · Natural Heat Convection · Highest Ingress Protection · Supports RDM

SPLITTER DUO GUARD

Splitter with single/double input modes

Splitter Duo Guard 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 consumptionis less than 5 watts.



- Supports bidirectional communication (DMX512 and RDM)
- Surface/truss mount
- 100% input data reservation
- Input back up function
- Single or double input modes

GUARD SERIES

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 (Return to base)

Power & Electrical

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

Control / Data Connections

Supported protocols	DMX512, RDM
DMX data refresh rate	44 Hz

Inputs / Outputs

DMX input ports	1 or 2
DMX output ports	5 or 4
DMX connectors	XLR

UltraStart · DMX Bi-Direct · Natural Heat Convection · Galvanically Isolated Ports · Supports RDM · High Ingress Protection

SPLITTER DUO RAIL

DIN RAIL mounted double input DMX splitter

Splitter Duo RAIL is special DIN RAIL mount device with10 DMX input/output ports that operates as a regular splitter with 1 input and 9 outputs as well as two separated 1-to-4 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.



- 100% input data reservation
- Input back up function
- Supports bidirectional communication (DMX512 and RDM)
- Single or double input modes
- Full galvanic isolation on all ports

RAIL SERIES

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)

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

Inputs / Outputs

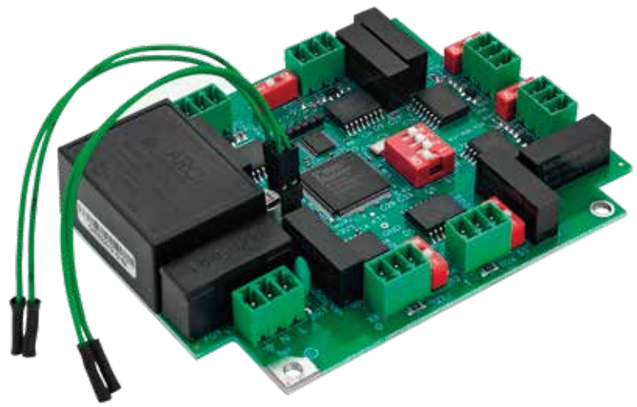
DMX input ports	1 or 2
DMX output ports	9 or 8
DMX connectors	Terminal blocks 15 EDGVC

UltraStart · DMX Bi-Direct · Supports RDM · Galvanically Isolated Ports · Natural Heat Convection · Permanent Laser Engraving

SPLITTER DUO BARE

Multi-channel DMX splitter/repeater

Splitter Duo Bare is a double-input OEM DMX splitter 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 galvanically isolated from each other. The device is powered by 100-250V industrial AC mains, power consumption is less than 5 watts. Input, output DMX cables, and power cables are connected by terminal blocks.



- 100% input data reservation
- Input back up function
- Single or double input modes
- Supports bidirectional communication (DMX512 and RDM)
- No buttons
- OEM board ready for integration into fixtures, furniture, custom cases etc

BARE SERIES

Environmental

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

Power & Electrical

Power supply	~100-250 V, 50/60 Hz or DC 12-24V
Input Power (max)	0.1 A

Control / Data Connections

Supported protocols	DMX512, RDM, ArtNet I, II, III, IV, sACN draft, release, KiNet v1, v2, RTTrPL sACN draft, release
DMX data refresh rate	44 Hz
Transmission range	200 m (regular antenna), 1500 m (directional antenna)
Communication protocol	beDMX
RF band	2.4 GHz

Inputs / Outputs

Wireless channels	1
DMX ports	1
Connectors:	15EDGVC terminal blocks

UltraStart · Supports RDM · Natural Heat Convection · Galvanically Isolated Ports

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 RAIL

DMX switcher

SwitchGate RAIL 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.



RAIL SERIES

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

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)

Power & Electrical

Power supply	~90-270 VAC, 50/60 Hz
Max voltage and current on outputs	250 V, 5 A
Max voltage at inputs	250 V
Input Power (max)	5 W
Mains Fuse	0.5 A

Inputs / Outputs

DMX connectors	Terminal blocks 15 EDGVC
Relay outputs	8 (6 on/off, 2 changeover)
Voltage control inputs	16

UltraStart · Permanent Laser Engraving · Supports RDM · Galvanically Isolated Ports · Natural Heat Convection

LED DIRVERS

LED drivers with DMX512/RS-485 input. Separate compact devices LEDGate NANO with wireless or cable DMX input, and DIN RAIL mount LEDGate RAIL. 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 RAIL

Compact LED driver

LEDGate RAIL 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 smooth, stepless intensity regulation across the full range without flickering.

RAIL SERIES

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

Power & Electrical

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

Inputs / Outputs

DMX connectors	Terminal blocks 15 EDGVC
Relay outputs	8 (6 on/off, 2 changeover)
Voltage control inputs	16

UltraStart · Permanent Laser Engraving · Supports RDM · Galvanically Isolated Ports · Natural Heat Convection

LEDGATE NANO
LEDGATE WIRELESS NANO

Compact LED driver





>be DMX

NANO SERIES

LEDGate NANO is compact LED driver with DMX512 (DMX512/RS-485 for wireless) 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.
Wireless LEDGate NANO 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.

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

UltraStart · Galvanically Isolated Ports · Natural Heat Convection

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)

Power & Electrical

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

Control / Data Connections

Control interface	DMX512, BeDMX
Transmission range (standart antenna)	100 m
DMX data refresh rate	44 Hz
Supported protocols	DMX512, BeDMX
Communication protocol	Bluetooth 5.0
RF banda	2.4 GHz

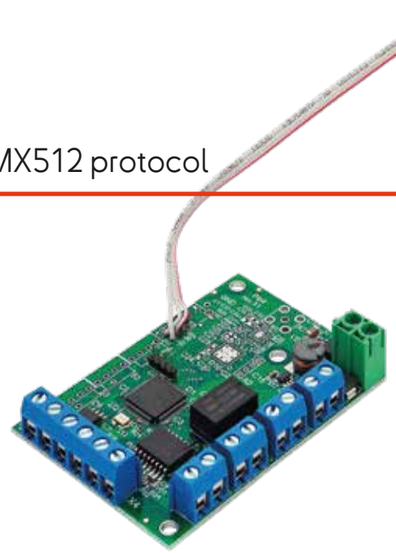
Inputs / Outputs

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

LEDGATE BARE

Configurable power supply for LED control via DMX512 protocol

The LEDGate Bare controls up to four PWM LED channels via DMX512, offering short-circuit protection, precise dimming, flicker-free operation, and 8/16-bit control. It operates on 12-24V DC, supports RDM (ANSI E1.20) for configuration, and is designed for concealed indoor or covered-area installation..



- Frameless execution
- Supports DMX512, RDM (ANSI E1.20) protocols
- Lack of LED flickering effect for smoothed control characteristic score
- Intelligent indication of operating modes
- Restart protection function in mode battery operation
- Short-circuit protection function for LED channels
- Galvanic isolation of DMX ports
- Possibility of PWM control 4 independent groups of luminaires
- Ability to work in 8/16 bit mode

BARE SERIES

OEM Open-frame design

Natural Heat Convection

Galvanically Isolated Ports

LEDGATE WIRELESS BARE

Configurable power supply for DMX512 LED control with beDMX transceiver function

The LEDGate Wireless Bare is a regulated power supply with a beDMX transceiver for DMX512 LED control. It controls up to four PWM LED channels, offering short-circuit protection, precise dimming, flicker-free operation, and 8/16-bit control. The unit automatically switches between DMX512 and beDMX for redundancy. It operates on 12-24V DC, supports RDM (ANSI E1.20) for configuration, and is designed for concealed indoor or covered-area installation.



- Frameless execution
- Support wireless reception function data via beDMX protocol
- Intelligent indication of operating modes
- Restart protection function in mode battery operation
- Short-circuit protection function for LED channels
- Galvanic isolation of DMX ports
- Possibility of PWM control 4 independent groups of luminaires
- Ability to work in 8/16 bit mode

BARE SERIES

OEM Open-frame design

Natural Heat Convection

Galvanically Isolated Ports

LEDGATE SLAVE NANO

Expansion module for LEDGate Nano and LEDGate Wireless Nano



The LEDGate Slave Nano expands the channel capacity of LEDGate Nano, Wireless Nano, and Bare devices, serving as a configurable power supply for DMX512-controlled LEDs. It manages four PWM LED channels with short-circuit protection, precise dimming, flicker-free operation, and 8/16-bit control. Powered by 12-24V DC, it supports RDM (ANSI E1.20) and rotary switch configuration. Its compact, lightweight design allows versatile placement on stage elements, sets, and various surfaces.

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

NANO SERIES

ULTRA START UltraStart

Galvanically Isolated Ports

Natural Heat Convection

LEDGATE SLAVE BARE

PCB expansion module for LEDGate Nano and LEDGate Wireless Nano



The LEDGate Slave Bare expands the channel capacity of LEDGate Nano, Wireless Nano, and Bare devices, acting as a configurable DMX512 power supply for LEDs. It controls four PWM LED channels with short-circuit protection, precise dimming, flicker-free operation, and 8/16-bit control. Powered by 12-24V DC, it supports RDM (ANSI E1.20) for configuration. Its enclosureless design allows concealed installation in manholes, recesses, or third-party enclosures for indoor or covered-area use.

- Frameless execution
- Supports DMX512, RDM (ANSI E1.20) protocols
- Lack of LED flickering effect due to smoothed control characteristics
- Intelligent indication of operating modes
- Restart protection function in run mode from battery
- Short-circuit protection function for LED channels
- Galvanic isolation of DMX ports
- Possibility of PWM control of 4 independent groups of lamps
- Ability to work in 8/16 bit mode

NANO SERIES

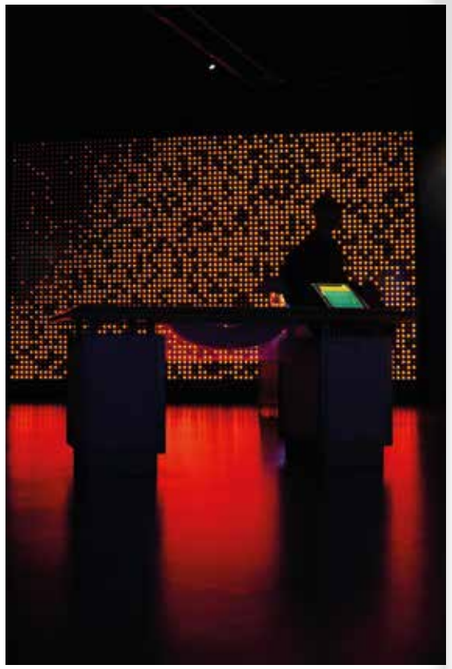
OEM Open-frame design

Natural Heat Convection

Galvanically Isolated Ports

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 wateproof.



PIXELGATE SHIELD

Compact LED pixel strip driver

ArtNet/sACN to SPI controllers for pixel mapped indoor and outdoor LED strip installations.
Two Ethernet ports and integrated switch provide cascadability. Directly convert up to 16 DMX universes into SPI to control 2,730 RGB pixels supporting 8 separate LED outputs.
Power supplied to LEDs separately, from 5V to 48V. Outputs are configurable through web-based management page. Tough and compact waterproof enclosure (IP65) specifically crafted for outdoor use.



SHIELD series

- Cascadable through integrated switch and 2 Ethernet ports
- Die-cast, waterproof metal casing (IP65)
- Support ArtNet and sACN
- LEDs with power supply up to 48V
- Support various LED types
- Full protection from dust and smoke increases product lifetime
- Power source 5/12/24/48 VDC

ULTRA START — UltraStart
User-Friendly Web Interface
Natural Heat Convection
IP65 — Highest Ingress Protection

LED strips support:
WS2811, WS2812B, WS2818, TM1809, UCS1903, UCS1903B, UCS1909, UCS1909B, UCS1912, UCS1912B, UCS2903, UCS2903S, UCS2909, UCS2912, INK1002, INK1003, LX1003 WS2801, WS2803, DM413, APA102, LPD8803, LPD8806
more on request...

Software Compatibility:
Elios, Madrix, LightJams, LightingPad, Jinx, Luminair
+ any control software that supports ArtNet

PIXELGATE RAIL

Compact LED pixel strip driver

ArtNet/sACN to SPI controllers for pixel mapped indoor and outdoor LED strip installations. Two Ethernet ports and integrated switch provide cascadability. Directly convert up to 16 DMX universes into SPI to control 2,730 RGB pixels supporting 8 separate LED outputs.
Power supplied to LEDs separately, from 5V to 48V. Outputs are configurable through web-based management page.
DIN RAIL mounted (4 modules) IP20 unit.



ULTRA START — UltraStart
User-Friendly Web Interface
Natural Heat Convection

RAIL SERIES

- Cascadable through integrated switch and 2 Ethernet ports
- DIN RAIL mounted (4 modules) IP20 unit
- Support ArtNet and sACN
- LEDs with power supply up to 48V
- Support various LED types
- Power source 5/12/24/48 VDC

Software Compatibility:
Elios, Madrix, LightJams, LightingPad, Jinx, Luminair
+ any control software that supports ArtNet

LED strips support:
WS2811, WS2812B, WS2818, TM1809, UCS1903, UCS1903B, UCS1909, UCS1909B, UCS1912, UCS1912B, UCS2903, UCS2903S, UCS2909, UCS2912, INK1002, INK1003, LX1003 WS2801, WS2803, DM413, APA102, LPD8803, LPD8806
more on request...

PIXELGATE BARE

PCB LED pixel strip driver with built-in 2-ports ethernet switch

PixelGate Bare is a powerful LED controller supporting up to eight independent SPI channels (single or dual wire) for addressable LEDs (342 RGB LEDs per channel per wire). It is compatible with ArtNet (1-4) and sACN (Draft, Release) protocols and works with a wide range of SPI drivers. Featuring a built-in 10/100Mbps Ethernet switch, it allows serial connection of controllers. Powered by a 5-48V DC LED power supply, it is designed for concealed indoor or covered installations, configurable via a web interface.



OEM — Open-frame design
Natural Heat Convection
Galvanically Isolated Ports

BARE SERIES

- Support for ArtNet (1,2,3,4), sACN (Draft, Release) protocols
- Supports two Ethernet ports
- Supports one and two wire SPI interface
- Wide voltage range support 5V to 48V
- Support for a large number of different address LEDs and addressable LED drivers
- Intuitive web interface
- SPI control 8 independent groups of LEDs

DMX to DALI

DALIGATE RAIL

DMX to DALI converter

DALIGate RAIL 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 RAIL is ideal as indoor solution for mixed lighting control purposes in theatres, small venues, architectural installations, industrial, warehouse, and agricultural lighting.



UltraStart

Supports RDM

Natural Heat Convection

Permanent Laser Engraving

Supports RDM

DMX Bi-Direct

Galvanically Isolated Ports

RAIL SERIES

- Work with DMX, ArtNet and sACN
- Converting options are channel-to-channel, channel-to-device, and channel-to-group
- Custom grouping of lights
- Automatically detect DALI lights in network through web interface with no extra software
- Maximum surge protection – power supply optimized for voltage from 100 to 315 V
- Full galvanic isolation of all ports
- Alarm triggered pre-programmed scenarios
- Test button support (fixtures test, device reset to default)
- Fixture search mode without readdressing

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)

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 I, II, III, IV/ sACN
DMX data refresh rate	44 Hz

Inputs / Outputs

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

DIMGATE RAIL

Hybrid DIN-RAIL dimmer

DimGate RAIL 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 RAIL 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)

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 I, II, III, IV/ sACN
DMX data refresh rate	44 Hz

Inputs / Outputs

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

DMX to 0-10V

RAIL SERIES

- 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

UltraStart

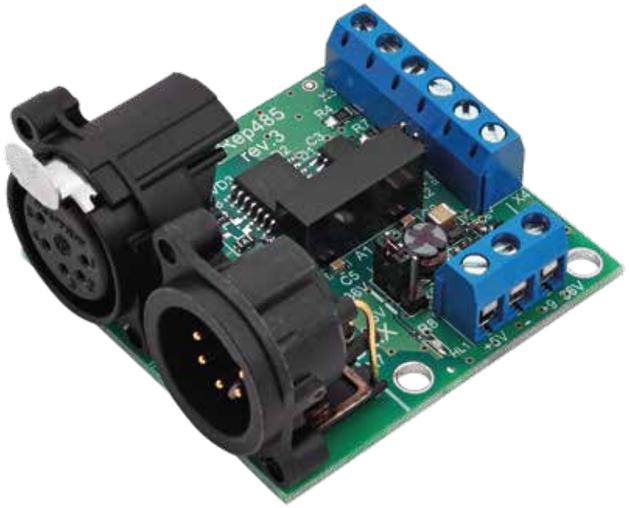
Supports RDM

Natural Heat Convection

Permanent Laser Engraving

Supports RDM

REPEATERS



ISOGATE BARE

Optical isolation + DMX repeater OEM board

OEM board for integration into third-party fixtures and installations. IsoGate Bare is capable to amplify DMX512 signal or other signals based on RS-485 physic.

Environmental

Operating Temperature	-20. +60°C
Storage Temperature	-50...+70°C
Operating Relative Humidity (max)	95%
IP Rating	IP20
Certification	CE, RoHS
Warranty	36 Month (Return to base)

Power & Electrical

Power supply	5VDC or 9-36VDC
Input power (max)	1W

Control / Data Connections

Supported protocols	DMX512
Data refresh rate	44 Hz

Inputs / Outputs

DMX ports	2x XLR
DMX connectors	XLR and terminals

BARE SERIES

- Galvanic isolation
- Powered from 5VDC or 9-36VDC
- Customisable direction
- Terminal connectors and XLRs

ULTRA START
UltraStart

Natural Heat Convection

DITRA ENTERTAINMENT LIGHTING SOFTWARE ECOSYSTEM



1

DITRA LUMERA Client

A user-friendly software interface for real-time monitoring, remote control, and configuration of lighting systems via Ethernet. It provides an intuitive dashboard with a map-based visualization of equipment, status updates, and fault alerts, ensuring efficient management of lighting networks.

2

DITRA LUMERA Server Software

The core of the system, facilitating seamless communication between all connected devices. It ensures real-time diagnostics, data processing, and centralized storage of operational history. The software supports multiple users, allowing conflict-free simultaneous access and secure management of system settings.

3

DITRA LUMERA Server

A high-performance, pre-configured hardware unit running a dedicated Windows Server OS with DITRA LUMERA Server Software installed. It ensures stable operation, secure data storage, and seamless integration with third-party control systems. The server also enables automated logging, system-wide synchronization, and efficient distribution of control signals.

Key Features

Real-time monitoring & remote control via Ethernet
Map-based visualization of equipment, statuses & faults
Live diagnostics & configuration (individual & group control)
Multi-protocol support (DMX512 ↔ ArtNet, sACN, KiNet v1/v2, RTTrPL)
Transmit more DMX streams with fewer cables via Ethernet LAN
Lighting control & management through a single network
Convert mapped video content into DMX streams
Seamless integration with lighting consoles, projectors & laser units
Multi-user access with secure permission control
Secure data storage & third-party system compatibility



SOFTWARE

SERIES

NANO SERIES

Unique Nano 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. Nano series include ArtGates Nano that are installed into standard socket wall or floor plates, or into fixtures as OEM boards. LEDGates Nano 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).

Shield 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.

SHIELD series

Prime 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 small depth lightweight metal housing.
From 2 to 8 ports per each device (up to 16 ports in 2unit Prime 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).

Prime series

BARE SERIES

Performance optimised OEM boards ready for integration into your installations and equipment. Same functionality and advantages as classic DITRA products, cheaper prices and bulk ordering available.

RAIL SERIES

Lightweight and compact RAILSeries are the best choice for fixed cabinet based installations with DIN RAIL mounting available. All the advantages of standard converters, designed in RAIL cases. Space saving 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).

Guard series has been specifically designed for adverse environments, hardly accessible and excessively dusty indoor locations. Guard 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 ArtNet/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).

GUARD SERIES



ULTRA
SOLUTIONS

Distribution pour la France

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distribution

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