

RadioGate Solid (DMX/ArtNet/sACN)

Version: 3.0
05 Dec 2018

Bidirectional hybrid DMX <-> ArtNet/sACN converter, splitter, booster, intelligent mergers + wireless (2.4 GHz) 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.

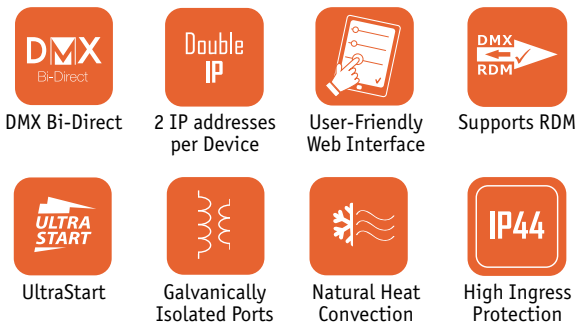
Wireless transmission up to 1500 metres distance with enhanced antennas. Adaptive Frequency Hopping (AFH) helps to avoid disturbance from any other wireless equipment.

Advantages

- 2 or 4 isolated DMX ports
- AC or DC power supply
- Resistant to interference 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

Merging Options

- HTP:** highest takes precedence
- LTP:** latest takes precedence
- AUTO:** last modified takes precedence – intelligent merging mode that provides availability to manage installation from two consoles simultaneously
- PRIORITY:** for sACN streams with priority tag, console with the highest priority for a given Universe will be in charge
- BACKUP:** any network universe or local static scene can be selected for outputting when main source fails
- TRIGGER and X-FADE:** switch dynamically between lighting desks, media servers, and other control sources.



Application

Convert DMX512 into ArtNet and sACN protocols in both directions to transmit DMX data through Ethernet LAN and transmit DMX/ArtNet/sACN wirelessly

Optimize rental product range – use single device instead of two different

Rental tours when total quantity of required converters and wireless systems is unpredictable

Hot backup of Ethernet line by wireless channel

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Technical Specifications

Mechanical

- Housing: Solid case
- Material: Metal
- Dimensions, mm: 171(L) x 55(H) x 121(W)
- Mass: 1.2 kg
- Mounting: Surface, Truss

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)

Environmental

- Operating Temperature: 0...+60°C
- Storage Temperature: -50...+70°C
- Operating Relative Humidity (max): 95%
- IP Rating: IP 44
- Certification: CE, RoHS
- Warranty: 36 Month (Return to base)

Control / Data Connections

- Supported protocols: ArtNet I, II, III, IV/ sACN, DMX512, RDM, KiNet, RTTrPL
- Data refresh rate: 44 Hz
- Transmission range (standard antenna): 200 m
- Communication protocol: Bluetooth 5.0
- RF band: 2.4 GHz

Inputs / Outputs

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

Configuration / Indication

- Setup: Web interface, Buttons
- Indication: DMX, beDMX and Ethernet

Package Contents

- RadioGate Solid
- 2.4 Ghz Antennas (2 pcs)

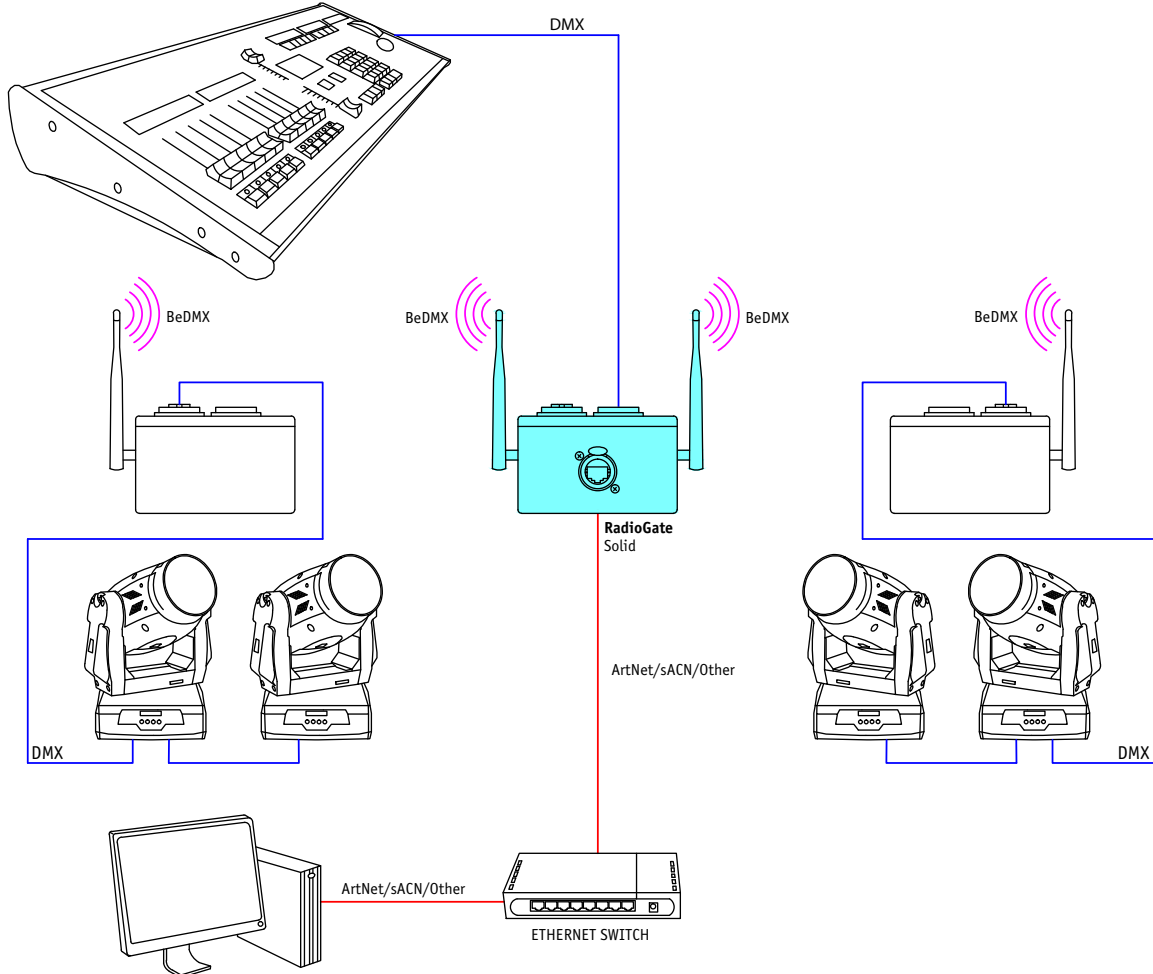
Product Line

Name	Modification	Product code
RadioGate Solid	2 DMX ports (5-pin), 2 BeDMX ports, 1 Ethernet port, 100-250 VAC (1024ch)	RGS-5-2D2CE-AC
	2 DMX ports (5-pin), 2 BeDMX ports, 1 Ethernet port, 12-24VDC (1024ch)	RGS-5-2D2CE-DC
	4 DMX ports (5-pin), 2 BeDMX ports, 1 Ethernet port, 100-250 VAC (2048ch)	RGS-5-4D2CE-AC
	4 DMX ports (5-pin), 2 BeDMX ports, 1 Ethernet port, 12-24VDC (2048ch)	RGS-5-4D2CE-DC

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Connection Scheme



Accessories

Name	Product code
Truss mounting kit (Solid, Arma)	DMX-MCA-1-113
Antenna 2.4 GHz long range outdoor	DMX-ACC-ANT-ENH
Antenna Cable 5m	DMX-ACC-ANT-050

Disclaimer

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