RadioGate Solid (DMX)

Wireless 2.4 GHz DMX transceiver

>be DMX

DMX Bi-Direct

Supports RDM

UltraStart

Galvanically Isolated Ports

Natural Heat Convection

High Ingress Protection

Back-Up Transmitter

Provide non-stop bidirectional DMX communication between devices in in 2.4 GHz ISM with RDM feedback up to 1500 metres with enhanced antennas. Adaptive Frequency Hopping (AFH) helps to avoid disturbance from any other wireless equipment. All RadioGates are versatile transmitter+receiver, with one-button configuration.

Packed into roadworthy die-cast metal cases, fully protected from fog and smoke, with galvanically isolated ports, RadioGate Solid is smart choice when wired DMX transmission is hindered. Available as ArtNet/sACN modification and IP65 waterproof case for outdoor application (RadioGate Arma).

Advantages

Maximum resistance to interference based on Bluetooth 2.0 protocol (beDMX). Nonstop two-way communication between devices with Adaptive Frequency Hopping (AFH) to avoid disturbance from any other wireless equipment

One-button programming, simple configuration

Full RDM support

LED indication of communication status on transmitter

All devices are cross functional – every device may be both transmitter or receiver

Natural heat convection, no fans or coolers, no vent slots – full protection from dust and smoke increases product lifetime

Effective moulded thick metal case and metal buttons provide mechanical reliability

Full galvanic isolation of all ports

Maximum surge protection – power supply optimized for voltage from 100 to 300 V

Battery power supply available. Optional 9-30V batteries support

Application

Applied when wired DMX/ArtNet/sACN transmission is hindered or impossible

Transmission to moving parts

Transmission from lighting console to stage in open spaces where lighting cables may be trampled down

Transmission to heritage assets and landmarked buildings

Transmission between roofs of detached buildings

Transmission between parts of moveable bridges

Transmission between moveable and long-distance street constructions

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Technical Specifications

Mechanical

- Housing: Solid case
- Material: Metal
- Dimensions, mm: 115(D) x 55(H) x 90(W)
- Mass: 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)

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

Inputs / Outputs

- Wireless channels: 1 or 2
- DMX ports: 1 or 2 isolated

Configuration / Indication

- Setup: Buttons
- Indication: LEDs for DMX activity

Package Contents

- RadioGate Solid
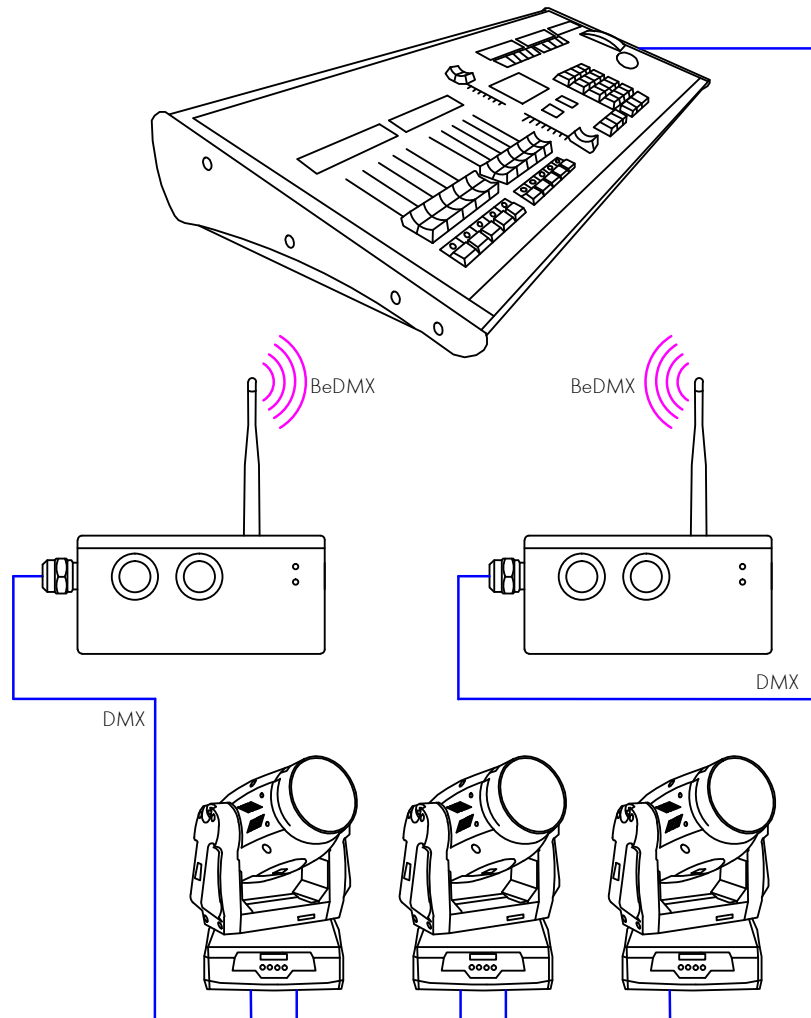- User guide
- 2.4 Ghz Antenna (1 or 2)

Product Line

Name	Modification	Product code
RadioGate Solid	1 DMX port (3-pin), 1 BeDMX port, 100-250VAC (512ch)	RGS-3-DB-AC
	1 DMX port (5-pin), 1 BeDMX port, 100-250VAC (512ch)	RGS-5-DB-AC
	2 DMX ports (3-pin), 2 BeDMX ports, 100-250VAC (1024ch)	RGS-3-2D2B-AC
	2 DMX ports (5-pin), 2 BeDMX ports, 100-250VAC (1024ch)	RGS-5-2D2B-AC
	1 DMX port (3-pin), 1 BeDMX port, 12-24VDC (512ch)	RGS-3-DB-DC
	1 DMX port (5-pin), 1 BeDMX port, 12-24VDC (512ch)	RGS-5-DB-DC
	2 DMX ports (3-pin), 2 BeDMX ports, 12-24VDC (1024ch)	RGS-3-2D2B-DC
	2 DMX ports (5-pin), 2 BeDMX ports, 12-24VDC (1024ch)	RGS-5-2D2B-DC

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Connection Scheme

Accessories

Name	Product code
Truss mounting kit (2-port device)	MCA-1-113
2.4GHz Long Range BeDMX antenna	DMX-ACC-BLT-024
Antenna Cable 5m	DMX-ACC-ANT-0500
Antenna Cable 10m	DMX-ACC-ANT-1000

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.