RadioGate Plus Solid

DMX wireless transceiver
+ DMX-Ethernet converter

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 Arma) and as 1-universe DMX-only transceiver (RadioGate Solid).

Advantages

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

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

BACKUP: any network universe or local static scene can be selected for outputting when main source fails

PRIORITY: for sACN streams with priority tag, console with the highest priority for a given Universe will be in charge

TRIGGER and X-FADE: TRIGGER and X-FADE: switch dynamically between lighting desks, media servers, and other control sources

PoE 802.3af	**DMX** Bi-Direct	**DMX RDM**	**ULTRA START**
Power over Ethernet	DMX Bi-Direct	Supports RDM	UltraStart
Galvanic Isolated Ports	Natural Heat Convection	**IP65**	Back-Up Transmitter
		Highest Ingress Protection	
Double IP			
2 IP adresses per Device			

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

SUNDRAX electronics

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Technical Specifications

Version: 4.00
15 Jul 2020

Mechanical

Housing: solid case
Material: metal
Dimensions (with sockets and buttons), mm:
181(D) x 55(H) x 137(W)
Dimensions (without sockets and buttons), mm:
171(D) x 55(H) x 121(W)
Mass: 1.2 kg
Mounting: Surface, Truss

Power & Electrical

Input Voltage: 90-250 VAC, 50/60 Hz
or 12-24 VDC
Max current consumption: 0.1A

Environmental

Operating Temperature: 0...+60°C
Storage Temperature: -50...+80°C
Operating Relative Humidity (max): 95%
IP Rating: IP 44
Certification: CE, RoHS
Warranty: 36 Month

Control / Data Connections

Supported protocols: DMX512, RDM,
ArtNet I, II, III, IV, sACN draft, release, KiNet v1, v2
RTTrPL sACN draft, release
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

Configuration / Indication

Setup: Web interface, buttons
Indication: LEDs for DMX, beDMX
and Ethernet activity

Package Contents

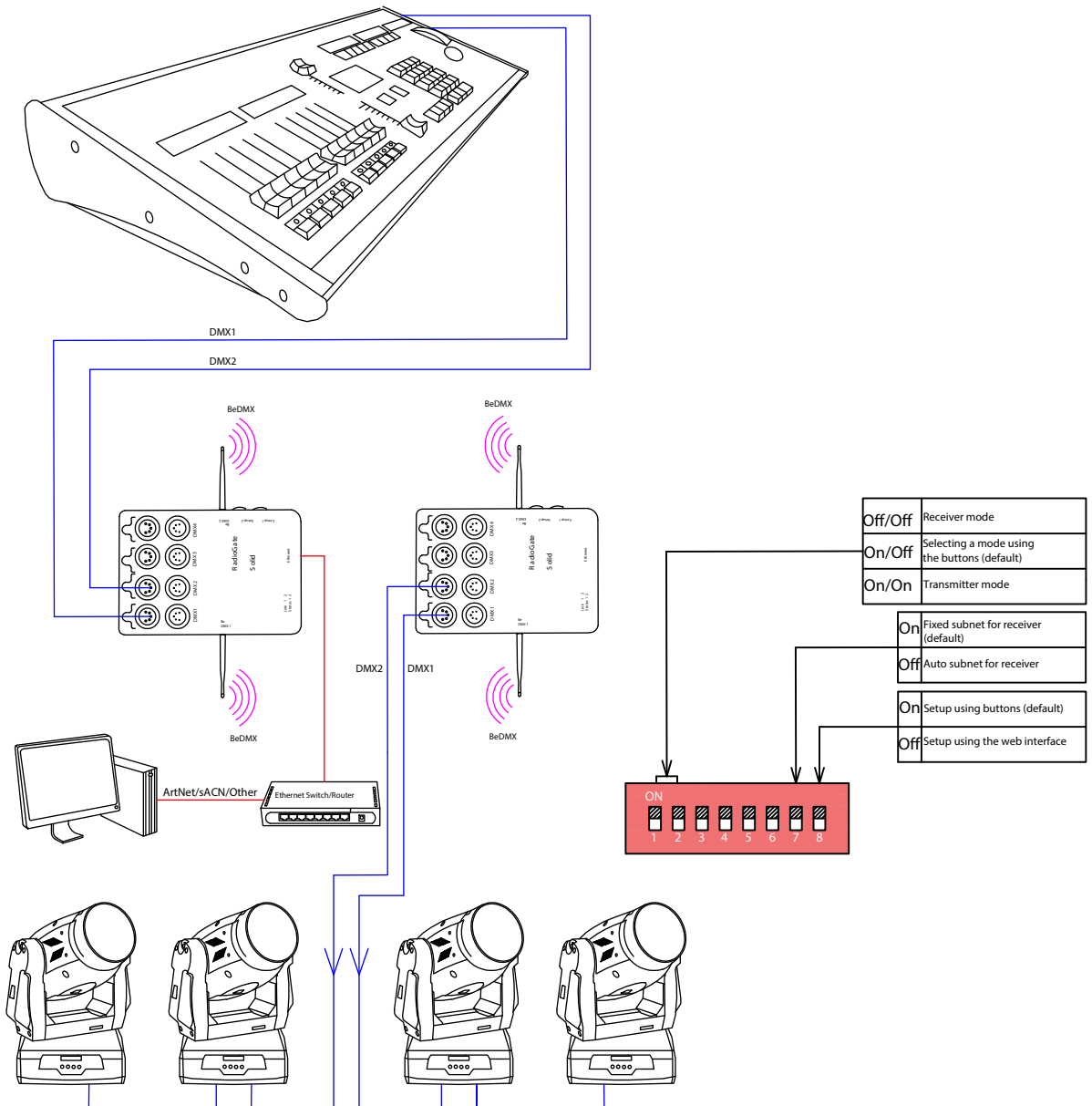**RadioGate Plus Solid**
2 antennas 2.4 GHz

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
	4 DMX ports (3-pin), 4 BeDMX ports, 1 Ethernet port, 100-250VAC (2048ch)	RGS-3-4D2CE-AC
	2 DMX ports (3-pin), 2 BeDMX ports, 1 Ethernet port, 100-250VAC (1024ch)	RGS-3-2D2CE-AC

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Connection Scheme

Off/Off	Receiver mode
On/Off	Selecting a mode using the buttons (default)
On/On	Transmitter mode

On	Fixed subnet for receiver (default)
Off	Auto subnet for receiver

On	Setup using buttons (default)
Off	Setup using the web interface

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-0500

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