



## RadioGate Plus Arma

### Waterproof DMX wireless transceiver + DMX-Ethernet converter

RadioGate Plus Arma 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 Arma is a smart choice when wired DMX transmission is hindered. Available as DMX-only modification (RadioGate Arma) or IP44 modification for indoor application (RadioGate Plus Solid).







### Advantages

- 2 or 4 DMX universes depending on modification
- Maximum reliability of connection based on Bluetooth 5.0 protocol (beDMX)
- Communication range up to 200 m (regular antenna) and 1500 m (directional antenna)
- 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
- 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
- DC 12-24V modification

### 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

 Power over Ethernet	 DMX Bi-Direct	 Supports RDM	 UltraStart
 Galvanic Isolated Ports	 Natural Heat Convection	 Highest Ingress Protection	 Back-Up Transmitter

### Application

- Bidirectional outdoor DMX/ArtNet/sACN transmission including communication through local network
- Transmission when wired DMX/ArtNet/sACN transmission is hindered or impossible
- 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 architectural lighting installations
- Transmission to moving objects and moveable bridges

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transceiver + DMX-Ethernet converter

Version: 4.00  
15 Jul 2020

## Technical Specifications

### Mechanical

**Housing:** solid case

**Material:** metal

**Dimensions (with cable glands and buttons), mm:**

203.5(D) x 51(H) x 141.5(W)

**Dimensions (without cable glands and buttons), mm:**

172.2(D) x 51(H) x 120.2(W)

**Mass:** 1 kg

**Mounting:** Surface, Truss

### Power & Electrical

**Input Voltage:** ~100-250 V, 50/60 Hz;

PoE 802.3af mode A, B or DC 12-24V

**Max current consumption:** 0.1A

### Environmental

**Operating Temperature:** -40...+70°C

**Storage Temperature:** -50...+80°C

**Operating Relative Humidity (max):** 100%

**IP Rating:** IP 65, for use in any weather conditions

**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:** 200 m (regular antenna), 1500 m (directional antenna)

**Communication protocol:** beDMX

**RF band:** 2.4 GHz

### Inputs / Outputs

**DMX ports:** 2 or 4 isolated (depends on modification)

**DMX connectors:** 15EDGV terminal blocks

**Wireless channels:** 2

**Ethernet ports:** 1

### Configuration / Indication

**Setup:** buttons, web interface

**Indication:** LEDs for Ethernet, DMX and beDMX activity

### Package Contents

RadioGate Arma

2.4GHz antenna(s)

## Product Line

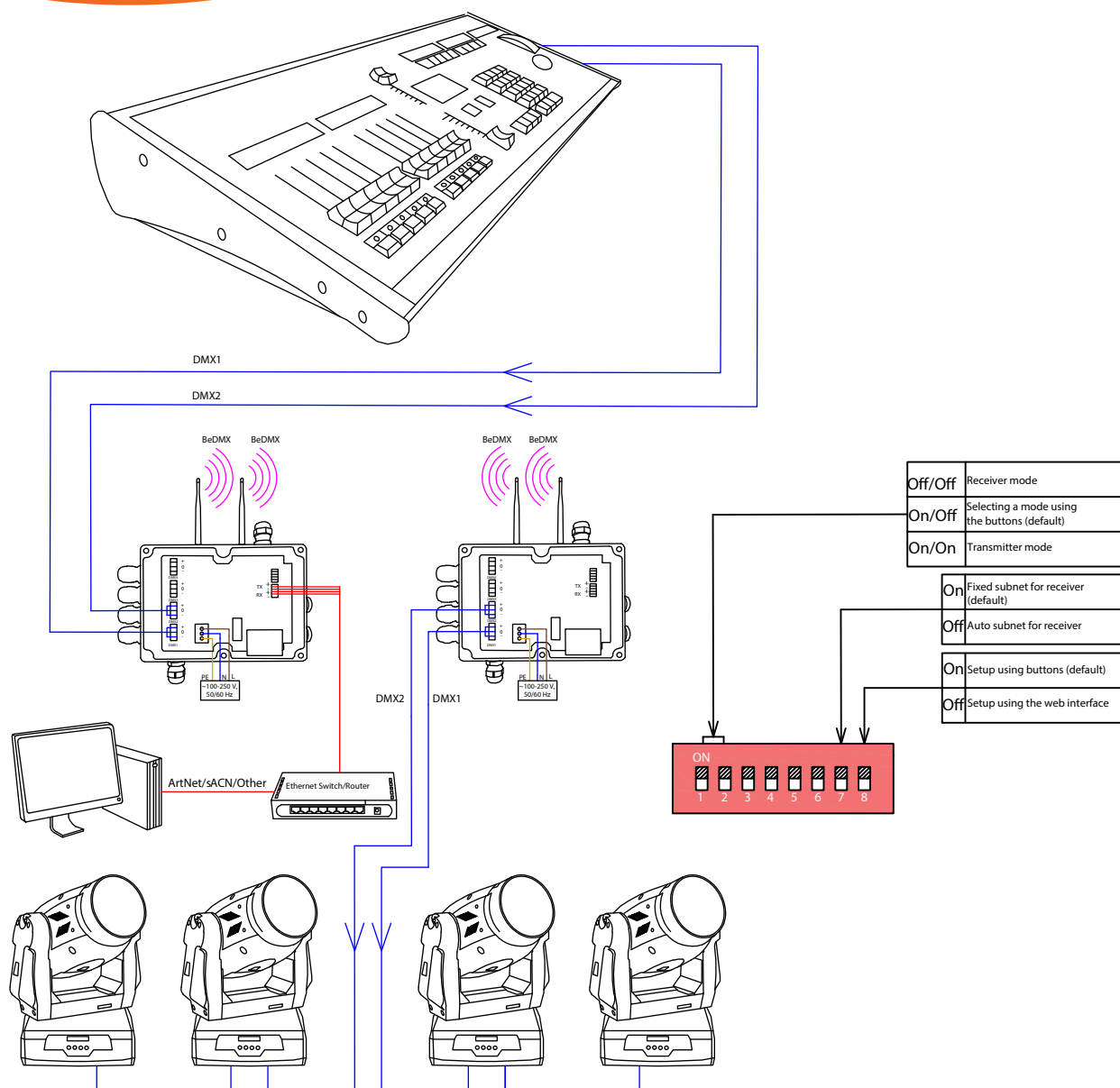
Name	Modification	Product code
RadioGate Arma	2 DMX inputs / outputs, 1 Ethernet port, 2 DMX universes, AC 100-250V	RGA-0-2D2C-AC
	2 DMX inputs / outputs, 1 Ethernet port, 2 DMX universes, DC 12-24V	RGA-0-2D2C-DC
	4 DMX inputs / outputs, 1 Ethernet port, 4 DMX universes, AC 100-250V	RGA-0-4D2C-AC
	4 DMX inputs / outputs, 1 Ethernet port, 4 DMX universes, DC 12-24V	RGA-0-4D2C-DC

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## Connection Scheme



## Accessories

### Name

Truss mounting kit (Solid, Arma)  
2 dbi 2.4GHz antenna  
5 dbi 2.4GHz antenna  
Antenna Cable 5m

### Product code

DMX-MCA-1-113  
DMX-ACC-ANT-2  
DMX-ACC-ANT-5  
DMX-ACC-ANT-050