RadioGate Arma

Waterproof DMX wireless transceiver + DMX-Ethernet converter

RadioGate 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 Arma is a smart choice when wired DMX transmission is hindered. Available as IP44 modification for indoor application (RadioGate 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
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
Optional 9-30V battery support
Optional PoE support

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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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
- **Input Power (max):** 5 W

**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 (standard antenna):** 200m
- **Communication protocol:** Bluetooth 5.0
- **RF band:** 2.4 GHz

**Inputs / Outputs**
- **DMX ports:** 2 or 4
- **Wireless channels:** 2
- **Ethernet ports:** 1

**Configuration / Indication**
- **Setup:** buttons, web interface
- **Indication:** LED for Ethernet, DMX and beDMX

**Package Contents**
- RadioGate Arma
- 2 antennas 2.4 GHz

**Product Line**

<table>
<thead>
<tr>
<th>Name</th>
<th>Modification</th>
<th>Product code</th>
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</thead>
<tbody>
<tr>
<td>RadioGate Arma</td>
<td>2 DMX inputs / outputs, 1 Ethernet port, 2 DMX universes</td>
<td>RGA-0-2D2C-AC</td>
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<tr>
<td></td>
<td>4 DMX inputs / outputs, 1 Ethernet port, 4 DMX universes</td>
<td>RGA-0-4D2C-AC</td>
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Sundrax electronics

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Connection Scheme

Accessories

<table>
<thead>
<tr>
<th>Name</th>
<th>Product code</th>
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</thead>
<tbody>
<tr>
<td>Truss mounting kit (Solid, Arma)</td>
<td>DMX-MCA-1-113</td>
</tr>
<tr>
<td>2 dbi 2.4GHz antenna</td>
<td>DMX-ACC-ANT-2</td>
</tr>
<tr>
<td>5 dbi 2.4GHz antenna</td>
<td>DMX-ACC-ANT-5</td>
</tr>
<tr>
<td>Antenna Cable 5m</td>
<td>DMX-ACC-ANT-050</td>
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</tbody>
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