

Features

- Wireless DMX/RDM transmitter/receiver
- Automated Cognitive Coexistence - CRMX
- Low latency (>5ms)
- Encrypted signal (128 bit)
- RDM enabled
- Ethernet or DMX input to transmitter
- Single button setup
- Universal PSU
- Low voltage power supply option for wire-free operation
- Configuration through simple PC software or via RDM
- Firmware upgradable over Ethernet
- Integral mounting options



Overview

Based on the first automated and adaptive wireless technology developed specifically for the lighting industry - the ZeroWire CRMX brings a new level of assurance to wireless DMX systems.

CRMX is the first system to continuously scan the radio spectrum and adapt to the best frequency without interruption. This avoids both interference in the increasingly crowded license free radio sphere, as well as helping to maximize the performance of all the other radio systems sharing those frequencies. In short, it's a smart radio that adapts. Add RDM and a rugged enclosure suitable to the demands of the entertainment and architainment industry and the package is complete.

Quality you can trust

- ✓ 3 years warranty
- ✓ On-line training videos
- ✓ Free software upgrades

- ✓ Real people to help you
- ✓ Downloadable web resources
- ✓ ISO 9001:2008 Certified

40 Years of Lighting Passion

- ✓ Multilingual training team
- ✓ Support forum

Approvals

- FCC: 15.247&68 Class B;
- Canada ICES 003
- CE; EN 301 489-1; EN 301 489-17; EN 300-328-1; EN 300-328-2; EN 609 50;
- SRRC - China

Environment

- Operating temperature range (ambient): -20°C to +50°C / -4°F to 122°F
- Humidity: 0-90% non-condensing

Physical

- Enclosure: Anodized extruded aluminium
- Dimensions (W x H x D) excluding antenna: 110mm x 44mm x 160 mm / 4,3" x 1,7" x 6,3"
- Weight: 0,8kg, 1,76lb

Connectors

- Antenna connector: RP-TNC male
- DMX connectors: 1 XLR 5-pin male (TX) / 1 XLR 5-pin female (RX)
- Ethernet connectors: 1 Neutrik® Ethercon™ RJ45
- DC input: Pluggable terminal strip, Phoenix® MSTB 2,5
- AC input: IEC 320-C14 Male

Ordering Information

ZeroWire CRMX RX: 00-894-00
ZeroWire CRMX TX: 00-893-00

Supplied Accessories

- AC power cord
- DC power connector
- 2dBi RP-TNC antennas

Standards

- USITT DMX-512 (1986 & 1990) and 512A: Yes
- Art-Net I & II, Streaming ACN (Draft & Standard): Yes
- RDM ANSI E1.20: Yes
- Firmware upgrade: Ethernet

DMX interface

- Number of universes supported: 1
- Full DMX fidelity and frame integrity: Yes
- W-DMX™ Compatibility: Yes, receive only^[2]
- Error correction and packet recovery: Yes
- Frame synchronization: Less than 0,01 ms
- End-to-end DMX latency: Less than 5 ms
- Auto sensing of DMX frame rate and size: Yes
- Supported DMX frame rates: 0,8 – 7352 Hz
- Number of DMX channels supported: 0 – 512
- Loss of DMX input behaviour: Timeout after 1,25s
- ESD protected interfaces: Yes
- High voltage input: 85-264VAC / 47-70Hz / 5W
- Low voltage input: 12VDC ±20% / 11W
- Power over Ethernet: Yes (on transmitter)
- Transient protected power inputs: Yes

RF characteristics

- Automated Cognitive Coexistence: Yes
- Dynamic adaptive frequency hopping: Yes
- Recoverable Radio Packet Error Rate: 30%
- Operational frequency range: 2402-2480MHz
- RF output in high power mode: 300mW (25dBm)^[3]
- RF output in normal power mode: 100mW (20dBm)
- RF output in low power mode: 50mW (17dBm) or 10mW (10dBm)
- RF modulation: GFSK
- Sensitivity at 0.1%: Packet Error Rate -96dBm
- Tested link range (Normal power mode using standard antennas in urban area): 500m
- Recovery time upon loss of signal: Less than 1s

^[2] CRMX systems are capable of receiving W-DMX data G3 and below, and from G4 systems running in G3 mode.

^[3] Allowed in North America only

Voltage	100V	<input checked="" type="checkbox"/>	220 - 240V NON CE	<input checked="" type="checkbox"/>	Standards	
	110 - 127V	<input checked="" type="checkbox"/>	277V	<input type="checkbox"/>		
	230V CE	<input checked="" type="checkbox"/>	347V	<input type="checkbox"/>		

This product conforms to one or more of the above standards.
Please contact your local Cooper Controls representative for further information.