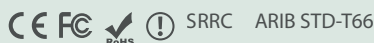


	CRMX OEM RX RDM	CRMX OEM FX DMX	CRMX OEM RX DMX	CRMX OEM TX DMX	CRMX DMX Receiver W-DMX footprint
Model code (Order code)	OE-BRX1 (800-8005)	OE-GFX1 (800-8006)	OE-GRX1 (800-8001)	OE-GTX1 (800-8002)	OE-WDFP (800-8901)
Supported protocols					
USITT DMX-512 (1986 & 1990) and DMX512-A	Yes	Yes	Yes	Yes	Yes
RDM ANSI E1.20	Yes	No	No	No	No
Firmware upgrade	Multiple options	Multiple options	Multiple options	Multiple Options	Multiple options
DMX interface					
Number of universes supported	1	1	1	1	1
Full DMX fidelity and frame integrity	Yes	Yes	Yes	Yes	Yes
Error correction and packet recovery	Yes	Yes	Yes	Yes	Yes
Frame synchronization	Less than 0.01 ms	Less than 0.01 ms	Less than 0.01 ms	Less than 0.01 ms	Less than 0.01 ms
End-to-end DMX latency	Less than 5 ms	Less than 5 ms	Less than 5 ms	Less than 5 ms	Less than 5 ms
Auto sensing of DMX frame rate and frame size	Yes	Yes	Yes	Yes	Yes
Supported DMX frame rates	1 - 830 Hz ¹	1 - 830 Hz ¹ / 0.8 - 7352 Hz	1 - 830 Hz ¹	0.8 - 7352 Hz	1 - 830 Hz ¹
Number of DMX channels supported	0 - 512	0 - 512	0 - 512	0 - 512	0 - 512
Loss of DMX input behavior	DMX driver output will go into high impedance state	DMX driver output will go into high impedance state in receiving mode. Timeout after 1.25s in transmitting mode	DMX driver output will go into high impedance state	Timeout after 1.25 s	DMX driver output will go into high impedance state
W-DMX™ G2/G3/G4 Compatibility ²	Yes	Yes, in receive mode	Yes	No	Yes
Power					
Low voltage input	5VDC regulated or 6-12VDC / 100mA max	5VDC regulated or 6-12VDC / 300mA max	5VDC regulated or 6-12VDC / 100mA max	5VDC regulated or 6-12VDC / 300mA max	5VDC regulated or 6-12VDC / 100mA max
RF characteristics					
Modes of operation	Receiver	Transmitter, Receiver	Receiver	Transmitter	Receiver
Automated Cognitive Coexistence	Yes	Yes	Yes	Yes	Yes
Dynamic adaptive frequency hopping	Yes	Yes	Yes	Yes	Yes
Recoverable Radio Packet Error Rate	30%	30%	30%	30%	30%
Operational frequency range	2402-2480 MHz	2402-2480 MHz	2402-2480 MHz	2402-2480 MHz	2402-2480 MHz
RF output in high power mode	300 mW (25 dBm) ³	300 mW (25 dBm) ³	N/A	300 mW (25 dBm) ³	N/A
RF output in normal power mode	100 mW (20 dBm)	100 mW (20 dBm)	N/A	100 mW (20 dBm)	N/A
RF output in low power mode	35 mW (15 dBm) or 10 mW (10 dBm)	35 mW (15 dBm) or 10 mW (10 dBm)	N/A	35 mW (15 dBm) or 10 mW (10 dBm)	N/A
RF modulation	GFSK	GFSK	GFSK	GFSK	GFSK
Sensitivity at 0.1% Packet Error Rate	-96 dBm	-96 dBm	-96 dBm	-96 dBm	-96 dBm
Link range (High power mode using 2 dBi antennas in urban area)	Up to 1000 m	Up to 1000 m	Up to 1000 m	Up to 1000 m	Up to 1000 m
Recovery time upon loss of radio link	Less than 1 s	Less than 1 s	Less than 1s	N/A	Less than 1 s
Approvals					
FCC: 15.247&68 Class B; Canada ICES 003 CE; EN 301 489-1; EN 301 489-3; EN 300 328; SS-EN 61547:2009; EN 60 950; SRRC - China; ARIB STD-T66 - Japan	Yes	Yes	Yes	Yes	Yes
Environment					
Operating temperature range (ambient)	-20° C to +70° C -4° F to 158° F	-20° C to +70° C -4° F to 158° F	-20° C to +70° C -4° F to 158° F	-20° C to +70° C -4° F to 158° F	-20° C to +70° C -4° F to 158° F
Humidity	0-90% non-condensing	0-90% non-condensing	0-90% non-condensing	0-90% non-condensing	0-90% non-condensing
Physical					
Dimensions (W x H x D) excluding antenna	27.5 x 12 x 65 mm 1.1" x 0.47" x 2.6"	27.5 x 12 x 65 mm 1.1" x 0.47" x 2.6"	27.5 x 12 x 65 mm 1.1" x 0.47" x 2.6"	27.5 x 12 x 65 mm 1.1" x 0.47" x 2.6"	46 x 12 x 82 mm 1.8" x 0.47" x 3.2"
Weight	10 g, 0.02 oz	10 g, 0.02 oz	10 g, 0.02 oz	10 g, 0.02 oz	10 g, 0.02 oz
Connectors					
Antenna connector	MCX	MCX	MCX	MCX	MCX
Integral antenna option	Yes	Yes	Yes	Yes	Yes
DC and data connector	Standard 2.54 x 2.54 mm (0.1 x 0.1") 2 x 10 position header	Standard 2.54 x 2.54 mm (0.1 x 0.1") 2 x 10 position header	Standard 2.54 x 2.54 mm (0.1 x 0.1") 2 x 10 position header	Standard 2.54 x 2.54 mm (0.1 x 0.1") 2 x 10 position header	Standard 2.54 x 2.54 mm (0.1 x 0.1") 2 x 5 position header

¹ Limited by the DMX512-A Standard

² Compatible with W-DMX™ transmitters on the 2.4 GHz band

³ Allowed in North America only



All CRMX products are covered by the United States Patent No. 7,432,803. CRMX technology is patent pending.