

CRX6

Central Receive 6-way MaxRC COFDM
Receiver with Multi-Channel Option



The CRX6 Receiver is a ruggedized, COFDM DVB-T compliant, six-way diversity central receiver engineered for exceptional RF performance and IP66 rated environmental protection, making it ideal for demanding outdoor deployments.

Representing the next generation of diversity receiving systems, the CRX6 significantly simplifies installation by replacing the multiple coaxial cable runs typically required between tower-mounted antennas and the receiver/decoder with a single Ethernet connection. This architecture reduces installation complexity, lowers susceptibility to lightning induced damage, and decreases overall system costs.

Unlike conventional systems that rely on a single highly directional antenna, the CRX6 employs six overlapping antenna sectors to provide continuous 360° azimuth coverage. This advanced antenna architecture enhances signal acquisition and reception by combining optimized antenna design with Adaptive Digital Signal Processing (ADSP) and Maximal Ratio Combining (MRC) techniques.

Rather than treating the antenna system, digital signal processing, and signal combining as independent functions, the CRX6 integrates and optimizes these technologies as a unified system. This fully autonomous approach continuously maximizes receive performance, automatically adapting to changing RF conditions while virtually eliminating the need for manual intervention.

Configuration and monitoring are performed through an intuitive web-based interface that provides channel control, real-time receiver statistics, individual antenna sector performance graphs, and the ability to enable or disable specific directional antennas. An easy-to-use administration software package is also included, allowing users to configure advanced settings such as frequency plans, AES decryption keys, and system naming.

The CRX6 is fully compatible with the Q-Link Remote Receiver system, enabling an accessory controller/receiver to provide power, control, and signal decoding for one or multiple remote receivers, delivering a flexible and scalable solution for distributed receiving applications.

Key Features

[Integrated 6-Way Diversity COFDM](#)

[Receiver](#)

[High Dynamic Range](#)

[Single Cable Coupling](#)

[IP Streaming of MPEG TS](#)

[Software Configurable settings](#)

[Web Page Control](#)

[Pole Mounting Kit](#)

[All Weather Housing](#)

Typical Applications

[Airborne Downlink](#)

[Surveillance, Firefighting, SWAT, Public Safety and Homeland Security](#)

Options

[AES Decryption](#)

[Fibre Connection](#)

[Multi-Channel Simultaneous Receive \(Dual or Quad\)](#)

[Application Specific Antennas](#)

[Q-Link Controller / Decoder](#)

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CRX6 Datasheet:

Technical Specifications	
RF Performance	
Tuning Step Size	250 kHz step size
Frequency Stability	± 10 ppm
Demodulation Modes	
Auto detected within modulation format and bandwidth	
Modulation 1	• Formats: COFDM (DVB-T) • DVB-T: Support all GI, CR, and Modulation • Carriers: 2K • Bandwidth: 5, 6, 7, 8 MHz
Modulation 2	• Formats: COFDM-NB • DVB-T: Support all GI, CR, and Modulation • Carriers: 2K • Bandwidth: 2.5 and 1.25 MHz (SR Scaled DVB-T)
Diversity	
Channels	6/2 Channel Maximum Ratio Combining
System	
Decryption	AES 128 / 256-bit BCRYPT 1 and BCRYPT 2 (FIPS PUB 197)
Control	Web interface
User Data	Serial over Ethernet (UDP)
Ethernet	• Stream TSolP UDP/RTP • RTSP • Unicast and multicast
Power Requirements	
Power Input	
Auxiliary Power	MS style connector for use with Optional fibre-optic interconnect
Standard Accessories	• PoE injector • Lightning and grounding protection • Mounting Kit with detailed instructions • Web page browser for configuration and monitoring • User manual
Physical Characteristics	
Size and Weight	Model dependent
Mount	Pole or Mast Mount
Connectors	• Ethernet (RJ-45) • Fiber (Optional)
Environmental	
Temperature Range	Full specification: -30° to +60° C (-22° to 140° F) Ambient
Storage	-40° to +80° C (104° to 176° F)
Humidity	0 to 95% non-condensing
Ingress	IP-65 (by design)

Hardware Variants	Frequency	Channels	Power Connection
900-CRX6-001-R	2.025-2.5GHz	Single	PoE
900-CRX6-002-R	2.025-2.5GHz	Dual	DC
900-CRX6-003-R	2.025-2.5GHz	Quad	DC
900-CRX6P-001-R	2.025-2.5GHz	Dual	PoE
900-CRX6F-005-R	4.4 – 5.0GHz	Single	Fibre + DC
900-CRX6-007-R	6.425-7.15GHz	Single	PoE
900-CRX6-009-R	6.425-7.15GHz	Single	DC
900-CRX6F-003-R	6.425-7.15GHz	Quad	Fibre, DC + ASI

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