CRX2

Compact Receive 2-way MaxRC COFDM Receiver

The Vislink Compact Receiver X2 (CRX2) is a ruggedized COFDM DVB-T compliant two-way diversity central receiver. The CRX2 offers exceptional RF performance and IP-66 environmental durability for external use.

Unlike equipment at typical diversity receive sites, with multiple coaxial cables from the tower to the receiver/decoder, the CRX2 design has reduced the coaxial runs to one Ethernet cable, thus decreasing the susceptibility to lightning and reducing overall system costs.

The compact, lightweight, rugged, IP-rated chassis can be to be mounted on vehicles, towers or building tops in any weather conditions. Two RF inputs from external antennas connect to the CRX2.

The CRX2 is powered via a single cable and sends the MPEG Transport Stream over IP, either by Ethernet cable or over ruggedized fiber, to a computer-based software or hardware decoder. The CRX2 system automatically optimizes the receive signal, and virtually eliminates all human intervention.

A Web page-based control system is used to set-up and monitor the CRX2 features, such as channel control, antenna receiver statistics, individual sector graphs, and can shut down specific antennas. An easy-to-use administration software package is supplied to set advanced functions, such as changing frequency plans, AES decryption keys, or unit naming.

The CRX2 is compatible with the eLink remote receiver interconnect enabling an accessory controller/receiver to power, control, and de-code signals received by single or multiple remote receivers. The eLink-enabled controllers include the DR3, BCRx, and MMCR. These receivers are traditionally fully integrated receivers, but you can extend them using the CRX2. These act as controller/decoders for the CRX2.

Key Features

- Integrated 2-way diversity COFDM receiver
- High Dynamic Range
- Single cable interface
- IP streaming of MPEG TS
- Software configurable settings
- Web page control
- Pole mounting kit
- All weather housing

Accessories

- 120/240VAC power supply
- Cabling and mounting kit
- PoE injector

Applications

- Airborne down link
- Surveillance, firefighting, SWAT, public safety
- Homeland security

Options

- AES Decryption
- Fiber connection
- Two or four simultaneous RF channel, 2-way diversity reception
- Application-specific antennas
- Hardware controllers
- Contribution grade decoder
- Monitoring grade decoder

RF Performance

Base Model Number	Frequency (GHz)	Power Consumption (W)
18/23CRX2	1.725 to 1.855	5
23CRX2	2.200 to 2.500	5
25CRX2	2.300 to 2.700	5
47CRX2	4.500 to 5.000	8
58CRX2	5.725 to 5.825	8
68CRX2	6.425 to 7.150	8
72CRX2	6.700 to 7.400	8

Tuning Step Size
- 250 kHz step size standard
- 100 kHz step size optional

Frequency stability
- ± 10 ppm

Not all bands have been tested for FCC compliance; please consult your local Sales office.

Demodulation Modes
- Auto detected within modulation format and bandwidth.

Diversity
- 2 Channel Maximum Ratio Combining

Modulation 1
- Modulation Formats:
  - COFDM (DVB-T)
- DVB-T:
  - Support all GI, CR, and Modulation
- Carriers:
  - 2K
- Bandwidth:
  - 5 MHz, 6 MHz, 7 MHz, and 8 MHz

Modulation 2 (Optional)
- Modulation Formats:
  - COFDM-NB
- DVB-T:
  - Support all GI, CR, and Modulation
- Carriers:
  - 2K
- Bandwidth:
  - 2.5 MHz and 1.25 MHz (SR Scaled DVB-T)

System
- Decryption (optional):
  - AES 128 and 256-bit BCRYPT 1/2 (FIPS PUB 197)

- Control:
  - Web interface
- User Data:
  - Serial over Ethernet (UDP)

- Ethernet:
  - Stream TSoIP UDP/RTP
  - RTSP
  - Unicast and multicast

Power Requirements

Cat-5 Model
- Power Input:
  - 802.3at-2009

Fiber Model
- Power Input:
  - Over Fiber (Optional)

- Input range:
  - PoE 48 VDC

Environmental

Temperature
- 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)

Physical Characteristics

Size
- 8.5 (W) x 7.0 (H) x 3.5 (D) inches
- 21.6 x 17.8 x 8.9 cm)

Weight
- < 6 pounds (2.7 kilograms

Connectors
- Ethernet: RJ-45 ()
- Fiber (Optional)

Standard Accessories
- PoE injector
- Lightning and grounding protection
- Mounting Kit - with detailed instructions
- Web page browser for configuration and monitoring
- User manual

Top Panel

Bottom Panel

07/19 - REV4.00 - RD002400

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