

# ATSC Series HDTV Tuners



The Contemporary Research ATSC series HDTV Tuners are durable and designed for 24/7 operation. Featuring universal reception, the units can decode MPEG2 and MPEG4 programs from off-air ATSC and cable clear QAM channels, as well as analog channels.

With a focus on integration, the tuners support RS-232, IP Telnet ASCII commands and IR/Wired IR codes. Onboard Web pages allow remote control, setup and monitoring. Full onboard scaling outputs video at a set resolution, up to 1080p.

Full ready-made programming modules are available from AMX, Crestron, Extron, and RTI control systems. The tuners can maintain two channel lists for cable and off-air channels, and the optional RF-AB interface can automatically switch between off-air and cable feeds.

## 232-ATSC 4 HDTV Tuner

- HDMI output, up to 1080p
- · Component and RGBHV outputs, up to 1080p
- Composite NTSC Video, output with captioning data
- · Analog Stereo, and SPDIF coax and optical audio outputs
- HDMI, Composite and audio outputs are simultaneous
- Either the RGBHV or Component outputs can be switched for active HD analog output

## **ATSC-SDI 4 HDTV Tuner with SDI**

- $\bullet \quad \mathsf{SDI} \ \mathsf{output} \ \mathsf{sends} \ \mathsf{the} \ \mathsf{current} \ \mathsf{tuned} \ \mathsf{program}, \ \mathsf{with} \ \mathsf{embedded} \ \mathsf{AES/AC-3} \ \mathsf{audio}, \ \mathsf{captioning} \ \mathsf{and} \ \mathsf{V-Chip} \ \mathsf{data}$
- Component output
- · Analog Stereo and SPDIF coax and optical audio outputs
- · All outputs are simultaneous



# ATSC Series HDTV Tuners





232-ATSC 4

Video HDMI, up to 1080p

RGBHV HD-15, up to 1080p Component RCA, up to 1080p

NTSC composite, 480i, captioning data

Audio HDMI embedded PCM or AC-3

SPIDF coax and optical, Stereo RCA L+R

HDMI and NTSC output always active Select between RGBHV and Component outputs ATSC-SDI 4

**Video** SDI, scaled from 480i to 1080p

Tuned program with caption and V-Chip data

Component RCA, up to 1080p

NTSC composite, 480i, captioning data

**Audio** SDI, embedded AES or AC-3 audio

SPIDF coax and optical, Stereo RCA L+R

All ports active at all times

### **Shared Features**

**Physical** 8.5" [216mm] wide x 1.75" [44mm] height (1RU) x 8.0" [203mm] deep

2.25 lbs [1 kg]

1RU Rack mounting for one or two units side-by-side (RK1, RK2EZ)

**Tuning** Cable/RF input, switchable with optional RF-AB RF A-B Switch

Type: ATSC, NTSC and Clear QAM DTV Standards: (1080i/720p/480p/480i) Aspect Ratio: Adjustable, variety of modes for 16:9 and 4:3 broadcasts Captioning: Analog and Digital, set by program for size, font, and attributes

Front Panel Power, Menu, Setup and Select buttons

Up and Down (Channel), Left and Right (Volume) buttons

Text Display, white text on blue LCD, channel and setup information IR Sensor, Mini USB Port for control and drag-and-drop firmware updates

### **Back Panel**

RF Input Air/Cable, 'F', female, 75 ohm impedance, -10 to 25 dBmV typical

Supports dual Cable and Air tuning with optional RF-AB RF A-B Switch

Control **Refresh Rates:** 60 or 59.94 Hz for 1080i/720p, 60 Hz for 1080p

RJ-45 10/100 Ethernet: Ethernet, Web page:

RS-232: DB-9 male, RS-232 data link to control system

300 to 19,200 baud (9600 default), 8 data bits, no parity, 1 stop bit

IR: 3.5 mm stereo input for external IR sensor or wired IR, discrete codes available

Air/Cable  $\,$  3.5 mm output to operate the optional RF-AB RF A-B Switch

Power 2.1mm coaxial jack (inside center conductor positive)

1 A maximum, 11 to 14 VDC, 12 VDC typical

Service: USB port for HD processor firmware upgrades

**Includes** HD2-RC IR Remote

Switching power supply, 1.5 A 12 VDC, option for 6A supply for up to 3 tuners

**Options** RK1 Single Rack Kit, 1RU

RK2-EZ Dual Rack Kit, 1RU

RF-AB RF A-B Switch, self-terminating, closure controlled

CC-COM RS-232 Null Modem Cable

IR-RXC External IR Receiver

CR products feature a full three-year warranty.



