



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.

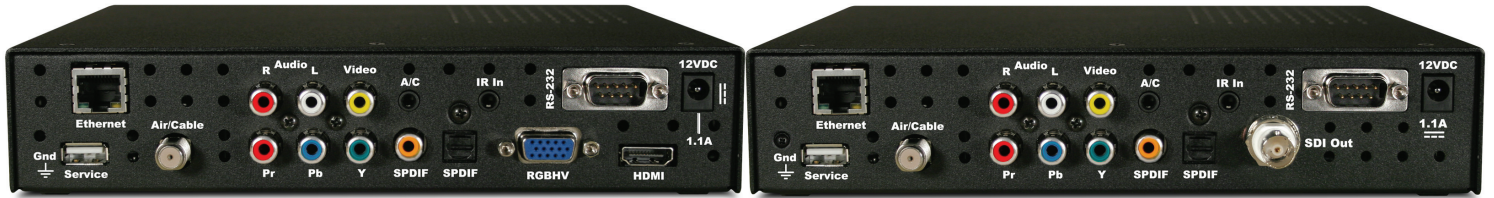
Full ready-made programming modules are available from AMX, Crestron, Extron, and RTI control systems. The tuners can maintain two channel lists for cable and off-air channels, and the optional RF-AB interface can automatically switch between off-air and cable feeds.

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

- SDI output sends the current tuned program, with embedded AES/AC-3 audio, captioning and V-Chip data
- Component output
- Analog Stereo and SPDIF coax and optical audio outputs
- All outputs are simultaneous



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.