232-ATSC 4 HDTV Tuner
ATSC-SDI 4 HDTV Tuner with SDI

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

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ATSC-SDI 4 HDTV Tuner with SDI

	232-ATSC 4		**ATSC-SDI 4**
Video	HDMI, up to 1080p	**Video**	SDI, scaled from 480i to 1080p
	RGBHV HD-15, up to 1080p		Tuned program with caption and V-Chip data
	Component RCA, up to 1080p		Component RCA, up to 1080p
	NTSC composite, 480i, captioning data		NTSC composite, 480i, captioning data
Audio	HDMI embedded PCM or AC-3	**Audio**	SDI, embedded AES or AC-3 audio
	SPIDF coax and optical, Stereo RCA L+R		SPIDF coax and optical, Stereo RCA L+R
	HDMI and NTSC output always active		All ports active at all times
	Select between RGBHV and Component outputs		

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