

232-ATSC 4K HDTV Tuner



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DATA SHEET



The 232-ATSC 4K HDTV Tuner, our 5th-generation ATSC HDTV tuner, adds new capabilities to the industry-standard 232-ATSC series. New features include tuning H.264 programs up to 1080p, output scaling up to 4K, and IPTV streaming output via Ethernet port. The new tuner is fully compatible with control commands for previous models.

The integrator-friendly HDTV tuner is controllable with 2-way RS-232, IP Telnet and UDP, as well as wireless and wired IR commands. An onboard Web page enables remote configuration, control, and monitoring.

A full-featured, commercial grade HDTV tuner, the 232-ATSC 4K can receive both digital MPEG-2/H.264 and analog channels, in ATSC, clear QAM, and NTSC formats. Using an optional RF-AB switch, the tuner can switch between antenna and cable feeds.

- Tunes analog and digital channels in ATSC, clear QAM, and NTSC formats
- Decodes MPEG-2 and H.264 digital channels up to 1080p 60Hz
- Passes through UDP MPEG-TS IPTV stream from received digital channel
- HDMI selectable video output resolutions: 480i, 480p, 720p, 1080i, 1080p, and 4K or Auto
- Analog HD RGBHV and Component video output resolutions: 480i, 480p, 720p, 1080i, and 1080p, or Auto
- Analog HD outputs operate simultaneously with HDMI
- Consumer Electronics Control (CEC) available on HDMI port for display power control
- 1080p and 2160p fixed at 60Hz frame rate, 1080i and 720p selectable at 60 or 59.94Hz
- Dolby Audio, PCM, or Variable PCM audio formats for digital audio ports and HDMI
- Simultaneous HDMI, S/PDIF, and Analog Stereo Audio output
- Front-panel and on-screen menus for tuner setup
- Web pages for remote setup and configuration
- Decodes analog and digital closed captioning
- Rack-mountable one or two across in 1RU
- Full ASCII 2-way RS-232/Telnet/UDP commands
- RS-232 can be daisy-chained to control up to 9 tuners from a single RS-232 port
- Supports iCC-Net control for power, channel, and volume
- Meets RoHS and California energy-saving standards
- TAA Compliant



Specifications

Physical	8.5" [216 mm] wide x 1.75" [44 mm] high (1 RU) x 8.0" [203 mm] deep 1.81 lbs [822 g] 1RU Rack mounting for one or two units side-by-side (RK1, RK2EZ)
Tuning	Air/Cable Input 'F', female, 75 ohm impedance, -10 to 25 dBmV typical Off-Air 2-69 (8-VSB and NTSC) and CATV 1-135 (64QAM, 256QAM, 8-VSB, NTSC) Standard, HRC, and IRC Parental option for channels and/or rating
IPTV Out	Pass-through UDP MPEG-TS IPTV stream from received channel, selectable individual or all programs
Decoding	Video – MPEG-2, H.264 - 480i, 480p, 720p, 1080i, 1080p Audio – Dolby Audio, MP1-2, AAC
Video Out	Composite RCA video, 480i, carries closed caption data Component YPbPr 3 RCA (1080p/1080i/720p/480p/480i) RGBHV HD15 female (1080p/1080i/720p/480p/480i) HDMI receptacle, Type A, Version 1.3 (2160p/1080p/1080i/720p/480p/480i)
Audio Out	HDMI - Digital Audio Passthrough/PCM/PCM variable level S/PDIF Coax and optical output - Digital Audio Passthrough/PCM/PCM variable level Analog Stereo RCA - variable level
Control	RJ-45 - 10/100 Ethernet for Web page access, Telnet, UDP, iCC-Net control, IPTV Output DB9 male - RS-232 1200 to 230K baud, 8 data bits, no parity, 1 stop bit IR Input - 3.5 mm TRS jack for optional IR-RXC IR Receiver A/C - 3.5 mm control output for optional RF-AB Air/Cable Selector Switch
Front Panel	LCD Text display, white text on blue background Power, Menu, Setup, and Select buttons Up and Down (Channel Up and Down) buttons Left and Right (Volume Up and Down) buttons IR Sensor, Mini USB-B port
Power In	2.1mm coaxial jack (inside center conductor positive), 1.1 A maximum, 11 to 14 VDC, 12 VDC typical, 13.2 W 45 BTU, 15.2 W 52 BTU including power supply, current draw 0.198 A@114 VAC with power supply

Includes:

PS12-1.5 Power Supply, Input: 100 to 240 VAC Autosensing, Output: 12 VDC, 1.5 A (5402-001)
RKU Universal Rack Mount Kit

Options:

HD3-RC IR Tuner Remote, 2 x AAA batteries (5034-005)
PS12-8Y 8A power supply with Y cable (5404-001) may be ordered with every 3-4 tuners in lieu of PS12-1.5 power supplies
RK1 Single Rack Kit, 1 RU (5008-001)
RK2EZ Dual Rack Kit, 1 RU (5008-015)
RF-AB Air/Cable Selector Switch (5077-001)
IR-RXC External IR Receiver (5032-001)
CC-COM-B RS-232 Null Modem Cable (5061-003)