

ATSC-SDI 4i HDTV Tuner



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DATA SHEET



The ATSC-SDI 4i HDTV Tuner, our 3rd-generation ATSC-SDI HDTV tuner, adds new capabilities to the industry-standard ATSC-SDI series. New features include tuning H.264 programs up to 1080p, HDMI output scaling up to 1080p, 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 new menu-driven display simplifies setup.

A full-featured, commercial grade HDTV tuner, the ATSC-SDI 4i 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 MPEG2 and H.264 digital channels up to 1080p 60Hz
- SDI Output – SD/HD/3G
- HDMI Output – Type A, Version 1.3
- SDI and HDMI output resolutions: 480i, 720p, 1080i, and 1080p, or Auto
- All outputs operate simultaneously
- 1080p fixed at 60Hz frame rate, 1080i and 720p selectable at 60 or 59.94Hz
- Passes through UDP MPEG-TS IPTV stream from received digital channel
- Coaxial and optical S/PDIF digital audio outputs
- AC-3, PCM, or Variable PCM audio formats for SDI, HDMI, and digital audio ports
- Front-panel and on-screen menus for tuner setup
- Web pages for remote setup and configuration
- Decodes analog and digital closed captioning
- Passes through EIA-708 closed caption data on SDI output
- Full ASCII 2-way RS-232/Telnet/UDP control commands
- RS-232 port can be daisy-chained to control up to 9 tuners from a single RS-232 control port
- Supports iCC-Net control for power, channel, and volume
- Rack-mountable one or two across in 1RU
- Meets RoHS and California energy-saving standards
- TAA compliant



Specifications

Physical	8.5" [216mm] wide x 1.75" [44mm] high (1RU) x 8.0" [203mm] 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
RF Decoding	Video - MPEG2, H.264 - 480i, 480p, 720p, 1080i, 1080p Audio – AC3, MP1-2, AAC
Video Out	SDI Output – SD/HD/3G Level A HDMI receptacle, Type A, Version 1.3 (1080p/1080i/720p/480i)
Audio Out	SDI and HDMI, AC-3/PCM/PCM variable level SPDIF Coax and optical output, AC-3/PCM/PCM variable level Analog Stereo RCA variable level
Control	RJ-45 10/100 Ethernet for Web page access, Telnet, UDP, and iCC-Net control RS-232 DB9 male 1200 to 230K baud, 8 data bits, no parity, 1 stop bit IR Input 3.5mm TRS jack for optional IR-RXC IR Receiver A/C 3.5mm 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), 1.1A maximum, 11 to 14 VDC, 12 VDC typical, 13.2W 45 BTU, 15.2 W 52 BTU including power supply, current draw 0.198A@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 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, 1RU (5008-001)
RK2EZ Dual Rack Kit, 1RU (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)