

ATOM-Box

Compact USB Recorder and Streaming Encoder

EvertzAV is a division within Evertz Microsystems exclusively focused on offering the most complete end-to-end AV distribution and visualization solutions for the professional AV industry.



Key Features

- Simple-to-use USB recorder
- High quality H.264 codec
- Video and audio recording
- Streaming encoder with MPEG-4 and TS files
- TS over TCP/UDP (unicast and multicast)
- RTSP over HTTP/TCP/UDP, RTMP, and HLS
- Low latency < 0.3s
- Up to 1080p60 fps
- HD/SD-SDI, DVI, VGA, YUV, AV, HDMI, and analog audio inputs
- Front easily accessible buttons for fast use
- Recording at up to 16Mb/s



Introducing the ATOM-Box

The ATOM-Box is a versatile USB recorder and streaming encoder in a compact form factor. Designed for multiple AV applications it allows low cost recording of sport, studio productions, compliance video, and music on to a USB drive as H.264 encoded MPEG-4 files. These files can be played back on virtually any computer, mobile device, and modern smart TVs, making this file format an almost universal playback medium.

The ATOM-Box is also a high quality streaming encoder that can stream files to the Internet for others to view live while also making a recording – it's one box with two functions! It is fully equipped with a full range of input interfaces including HD/SD-SDI, DVI, VGA, YUV, AV and HDMI.

Extremely Flexible and Simple-To-Use

The ATOM-Box a flexible platform that can be used as a standalone device or rack mounted in a 1RU chassis when multiple recorders are required. One of its many benefits is that it's simple to use; insert a USB drive, press the REC/ STOP button for instant recording, then press it again to stop. For streaming video and audio, press the STREAM/STOP button for live video over IP. For optimizing recording and streaming performance, a simple Web UI is available for accessing the ATOM-Box's recording and streaming parameters.

High-Quality Encoding and Optimized Streaming

The use of the H.264 codec ensures high-quality recordings encoded as MPEG-4 files with impressive video and audio quality for resolutions of up to 1920x1080p/60 with AAC audio bit rates up to 384 kHz and a sample rate of 48 kHz at 16-bit. The Web UI provides adjustable bit rate, standard or high profile MPEG-4 or TS, and users can further optimize the TS transport stream signals for streaming such as TCP/UDP (unicast or multicast), RTSP over HTTP/TCP/UDP in the form of elementary stream, RTMP (local or publish), and HLS.

A Low Cost, Versatile, and Compact Solution

The ATOM-Box is a highly affordable, versatile, and compact USB recorder with a flexible design that accepts a wide range of analog and digital video signals, enabling simultaneous recording and streaming.

ATOM-Box Front



ATOM-Box Rear



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Contents Subject to Change
Rev. 03

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ATOM-Box

Compact USB Recorder and Streaming Encoder

Specifications

USB	USB 2.0, high speed, >15 Mb/s sustained data rate
Codec	H.264/AVC, baseline, main, or high profile
Latency	<0.3s (RTSP/UDP streaming)
Bitrate	Preset for 3 Mb/s, user adjustable up to 16Mb/s via Web UI
File Format	TS or MPEG-4 with AAC audio
Audio Codec	32-384 Kbps, sample rate 48 kHz at 16-bit
Video Inputs	1x HD/SD-SDI, 1x DVI, 1x VGA, 1x YUV, 1x AV, 1x HDMI
Supported Input Formats	1920×1080 (p60/p50/P30/p25/p24/i60/i50), 1280×720 (p60/p50), 1280×1024 (p60), 1280×960 (p60), 1024×768 (p60), 800×600 (p60), 720×480 (p60/i60), 640×480 (p60), 720×576 (p50/i50)
Supported Output Formats	Resize range from 128x128 to 1920x1080 (p60)
Audio Inputs	2x RCA, 1x 3.5mm connector (stereo)
Control Ethernet	1x RJ-45, 10/100 Mb/s
Power Input	10V–24VDC on 2.5mm connector with screw lock
Power Consumption	15W
Dimensions (W x H x D)	6.3in x 1.7in x 4.7in (160mm x 44mm x 120mm)
Weight	1.10 lbs (0.5kg)

Ordering Information

ATOM-BOX1-USB	Compact USB recorder and streaming encoder
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