

# The Next Generation of Multi-Format Audio Encoders and Servers



## Many standards, one Solution

It is finally possible to provide live and on-demand audio streaming content from one simple, yet powerful appliance - The MediaBox. Ituner's MediaBox product line is an innovative hardware and embedded software platform designed to reduce the time, cost and risk of deploying audio applications over the Internet.

### MediaBox AS-2600 Performs

A real performer, the MediaBox AS-2600 series enables professional broadcasters, production studios, ISPs, corporations and individuals to encode, serve and automate live and on-demand audio over the Internet in a matter of minutes.

### Real Cost Saver

Reduce the amount and complexity of your equipment and minimize the administration tasks, the MediaBox "all-in-one solution" is a real cost saver.

### Utilize the power

Utilize the power and ease-of-use of the MediaBox for web-based entertainment, conferencing, training, marketing and education. Build and extend your broadcast infrastructure with the quality, and reliability of the MediaBox.

### Open Platform

The MediaBox runs on a very small, bullet proof Linux distribution, the industry standard of open platform architectures.

INTERFACE LAYER	WEB INTERFACE				LCD/KEYPAD INTERFACE			MONITOR/VU	
ENCODER LAYER	REAL ENCODER	REAL DECODER	MP3 ENCODER	MP3 ENCODER	VORBIS ENCODER	VORBIS DECODER	QTSS ENCODER	CUSTOM ENCODER	
SERVER LAYER	REAL SERVER		MP3 SERVER		VORBIS SERVER		QTSS SERVER	HTTP SERVER	
CONTROL LAYER	BOOT CONTROL	SCHED	KERNEL EXECUTOR		MEDIABOX CRON		PROCESS WATCH	SNMP MONI	
OS LAYER	AUDIO DRIVERS	VIDEO DRIVERS	XNTP	FTP SSH TELNET	CRON	MEDIABOX OS KERNEL			
HARDWARE LAYER	PCMCIA	USB	ETHERNET	HDD	CF	RAM	CPU 1	CPU 2	

## Multiple Streaming Protocols

Encode the same source with up to 16 different applications using IMUX technologies with archiving.

- RealNetworks RealAudio
- MP3 Live (Icecast)
- Apple QuickTime Streaming Server
- OGG-Vorbis
- HTTP streaming

## Integrated Decoding Tools

Allows you to receive streams from distant sources. By using the MediaBoxCron you can schedule start and stop times, URL, recording and volume settings. Decode MP3, OGG-Vorbis, WAV, and RealAudio streams.

## Superior Audio Capabilities

Encode at the highest quality multiple instances of RealAudio, MP3, OGG-Vorbis and Quicktime. Control encoding and archiving automatically via MediaBoxCron.

## Easy, Browser-based Administration

With a built-in HTTP server, network operators can configure, manage, and monitor their system from a web browser from anywhere on the network. Simply plug the MediaBox into the network, set IP address, set encoding parameters, and start broadcasting.



## MegaBroadcast

The MediaBox well exceeds multiple T1/T3 throughput capabilities, capable of sustaining 95Mbps of TCP/IP traffic. Zero Copy Networking: The MediaBox OS enables the Network Adapter to access data directly from the kernel, dramatically increasing network and CPU performance.

## Automate with MediaBoxCron

Automating tasks has never been easier. Simply tell your MediaBox when to start encoding, when to stop, which audio card to use, and MediaBoxCron will do the rest.

## Advanced Monitoring

Web based monitoring (real time and historical) of bandwidth consumption using SNMP agents.

## Embedded Web Server

MediaBox will serve your web pages right out of the box, supporting hundreds of http connections.

## Small Footprint, Stable, Embedded OS

While others use large OS distributions, we compressed everything into a 64mb, no moving parts flash disk. Furthermore, our Reiser FS file system with fast journaling capabilities will ensure data integrity to the last bit.

## Power Loss Recovery

Sleep well. In case of a power hit, the MediaBox will restart encoding and will remember the exact previous settings.

## Compact 1U Rackmount

Low profile 1U unit design, only 19"W x 14"D x 1.75"H. Stack up to 35 1U units in a single rack.



## About Ituner Networks Corp

Ituner Networks Corporation develops turnkey media streaming solutions for broadcasting to large audiences over the internet.

Ituner's products are used by professional broadcasters, production studios, ISPs, corporations and individuals to encode, serve and automate live and on-demand. For a name and address of a distributor near you, please contact:

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System		Administration	
Processor Type	X86. P6 micro-architecture	Remote Admin	Web interface, CPU, Bandwidth monitor
OS Type	MediaBoxOS, embedded Linux	Local Admin	Console, Menu-driven, command line
OS ROM	64Mb Removable CF Card	Local Display	Built-in backlit LCD, Keypad, Status LEDs
Audio/Video Storage	2nd internal CF or 60Gb HDD	Automated Tasks	MediaBoxCron Scheduling
Console	Serial, DB9		
Audio Inputs		Streaming Media Formats Support	
Hardware Audio Input	One or Two stereo RCA jacks 8mm jacks front and back SPDIF, Optical. (Optional)	Streaming Platforms	MP3, RealAudio, RealVideo, RTSP, Shoutcast, QTSS, HTTP, Vorbis
Software Audio In/Out	16 software OSS Input Multiplexors	Audio Output	
Audio Codec	AD1885, Full Duplex 16bit >90 dB dynamic range	Analog Out	Stereo output, 8mm jacks
Input Type	Line IN, MIC	Digital Out	SPDIF, Optical. (Optional)
Encoding Rates	Multiple sessions, 8Kbps to 512 Kbps mono or stereo	Output type	Line Out, Speaker
Sampling Rates	8Khz to 48Khz		
Network		Size, Power	
LAN	10/100Mbps Autosensing Ethernet	Size	Rack mountable, 19"W x 14"D x 1.75"H
Streaming Data Rates	95Mbps sustained @ 40% CPU util	Voltage	100-230V, autosensing
		Power	.35A, 110V