Sample rate:	44.1, 48, 176.4, or 192 kHz (internally up to 768kHz)
Diversity delay for HD/DAB:	12.5 seconds
Maximum MicroMPX output IP/port combinations:	4
Frequency Response:	20 Hz to 20 kHz
Signal to Noise Ratio:	Greater than -85dBu
System Distortion:	0.01% THD
Stereo Separation:	74 dB typical 70 dB minimum
Digital Output Level:	-30.0dBFS to 0.0dBFS
Stereo Baseband Output:	-8dBu to +22dBu
Analog I/O:	(1) Fully balanced stereo input and (1) Fully balanced stereo output, both on XLR and StudioHub+ RJ45 connectors
A/D Conversion:	24 bit 128x over-sampled delta sigma converter
D/A Conversion:	24-bit 128x oversampled
Digital I/O:	(1) AES/EBU stereo input on StudioHub+ RJ45 connector, and (1) AES/EBU stereo output on StudioHub+ RJ45 connector
MPX Output:	Analog MPX on (2) 50Ω BNC connectors. (1) AES192 digital MPX on StudioHub+ RJ45 connector
Ethernet:	(2) RJ45 Ethernet connections, 100BT-1000BT
USB:	(1) USB 3
Power Requirements:	AC Mains 100-240VAC, 50-60Hz, 30VA DC Backup 12VDC, 3A
Power Connector:	IEC Male connector
Power Supply:	Main internal AC/DC power supply Optional backup external AC/DC supply

Specifications are subject to change without notice.

StereoToolBox

ANGRYAUDIO

Key features:

Our Quick set up:

Allows you to set up audio parameters, processing parameters and repair parameters making getting on the air within minutes easy.

Seven easy sliders:

Adjusts audio easily without delving into menus.

MicroMPX:

The industry standard STL codec designed by Thimeo Audio Technology and used by processing, codec and transmitter manufacturers worldwide. MicroMPX gives you the capability of sending a full FM signal at bitrates as low as 320kbps. MicroMPX can send the full FM signal including RDS data to multiple FM transmitters. MicroMPX can also be used for off-site monitoring of streams.

MicroMPX+:

MicroMPX+ gives you the ability to send full FM signal at rates as low as 176kbps, making it ideal for satellite, 4G links.

Built-in set of analysis tools:

Including digital oscilloscope, FFT spectrum analyzer and many other features making audio adjustments easily.

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Perfect Declipper:

Repairs and restores peaks from clipped audio, removes distortion, and restores dynamics. It's perfect for repairing audio that has been damaged by clipping during mastering.

Delossifier:

Improves the sound of audio compressed with MPEG2/MP3. It reduces pre-ringing and fills spectrum gaps.

Dehummer:

Removes unwanted constant sounds, such as 50/60Hz from bad cables.

Noise Gate:

Removes background noise, which may occur in older recordings.

Phase repair:

Repairs phase issues in audio such as timing misalignment and overly large phase differences.

Natural Dynamics:

Restores dynamic range and punch in compressed recordings.

Speech detection:

When broadcasting voice only such as during news or sports, you may want different processing, and this automatically detects it and switches to the processing best suited for the audio.

Adaptive Compressor:

Our powerful adaptive compressor dynamically adapts its behaviour to the input. Because of that it can handle massive volume differences, eliminating the need for multiple stages such as AGC and multiple multiband compressors stages. The resulting audio is more consistent than it would be with these separate stages, and simultaneously can be much more open. It is also much easier to adjust.

The adaptive multiband compressor can run from 2 to 9 bands, a traditional dynamics design with 1 to 4 band AGC and two 2 to 9 band multiband compressors is also available.

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StereoToolBox

True Bass:

Generate lowers harmonics (deep bass tones) that are missing from the original recordings.

Bass Exciter:

Creates bass harmonics which will help enhance the bass on smaller speakers which aren't always suited to show off the bass.

BS412 limiter:

Our implementation uses multiple methods to predict future audio to minimize unnecessary effects on audio and maintain consistency in audio.

Intelligent Composite Clipper:

Gives you 2-3dB more loudness than traditional clipping. Your audio will be louder, more dynamic, less clipped sounding, with better stereo and more highs. It will also increase the stereo reception area, and actively protect against multipath reception issues.

AM Brilliance:

Reshapes the audio highs to be pleasantly audible on AM, improving intelligibility.

RDS/RDS2 built in encoders:

Full fledged RDS encoder, with remote control via among others UECP and ASCII commands. With RDS2, stations can send logos, and long PS texts with a maximum of 32 UTF-8 bytes, meaning character coding in all languages worldwide is possible.

Streaming:

IceCast streaming with support for AAC, HE-AAC, HE-AAC 2, MP3 and ogg/Vobis.
Kantar, Nielsen and Intrasonics watermarking

HTML 5 web interface, JSON remote control interface:

Access your box from any tablet, phone, PC or MAC – anything with a modern browser.

Fast and simple software updates

www.angryaudio.com