

MPX & AUDIO SILENCE MONITOR WITH ADVANCED BACKUP CAPABILITIES

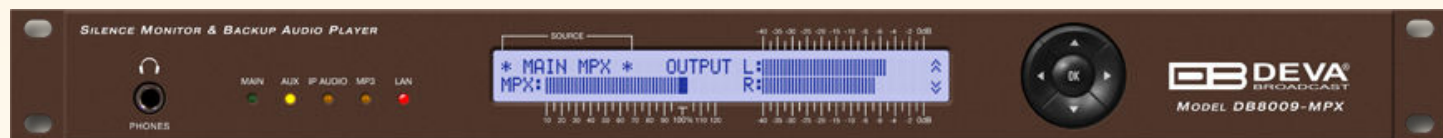
DEVA's DB8009-MPX is an exceptional example of a top-notch silence detector that continues the company's hugely successful range of broadcast tools but at the same time stands apart in terms of the functionalities it provides users with. It guarantees highly dependable monitoring of the Composite Stereo signal, Analog and Digital Audio feed and in case of signal loss automatically switches over to one of a number of available backup sources.

Crucially, however, the most notable advantage of this product are the MPX inputs and outputs providing precise MPX monitoring and backup capabilities. Similarly to other tools in this product line, the DB8009-MPX also offers the familiar MP3 and IP Audio backup options. Its design incorporates a fully DSP-based Stereo Encoder which provides an MPX signal at the output even if the backup source has been set as Analog, Digital or IP Audio.

The unit can be easily configured and monitored by users via SNMP, the WEB Interface, the front panel LCD display and the set of soft buttons. Another important feature is its capability for alert notifications which, in case radio silence is detected, can be generated via email, SNMP or analog opto-coupled outputs.

The DB8009-MPX provides UPnP for easy discovery in local networks, as well as digital volume control of all audio sources, and can be incorporated effortlessly into the setup of either a single station or large radio networks. Through a standard FTP client, MP3 backup files can be uploaded onto the device, which also has a 4GB storage capacity ensuring no repetition of audio tracks for over 24 hours of playback.

The DB8009-MPX is a model that combines the immaculate monitoring performance of DEVA's products with the much-valued precision of the Analog, Digital Audio and MPX silence detection to deliver a constant, uninterrupted audio feed.

**FEATURES**

- Remote FW Upgrade for future-proof operation
- User selectable backup audio sources priority
- Digital Volume Control of all Audio Sources
- UPnP for easy discovery in Local Networks
- Protected access to the device settings
- Alert Notifications via E-mail, SNMP
- Easy installation and operation
- Fully DSP based core
- Built-in MP3 Player
- 2 Years Warranty
- Multiformat IP Audio Stream (three separate sources)
- Intelligent Silence Detector and Backup Audio Switcher
- Professional 19 inches, 1U aluminum rack mount chassis
- Wide Range Internal Power Supply 100-240VAC 50-60Hz
- Always Fresh Backup Audio Tracks with Embedded FTP server
- Lots of Storage for over 24 hours of non-repeating audio playback
- TCP/IP Remote monitoring and control via SNMP and WEB Interface
- Professional AES/EBU Digital audio inputs and output on XLR connectors
- Headphones Jack on the front panel for local monitoring of the Audio Signal
- Professional Balanced Stereo analog inputs and outputs on XLR connectors
- Configuration and Monitoring via SNMP, WEB, Front Panel LCD and Keyboard

SPECIFICATIONS

Main MPX (Composite) Input

Connector	BNC Unbalanced
Impedance	10 kΩ
Frequency Range	10 Hz to 200 kHz
Level	100% reference in range -12dBu to +18dBu, 0.1dB step, software controlled

Main Analog Audio Inputs

Connectors	Balanced XLR
Impedance	600Ω or high impedance
Level	0dBFS reference in range -12dBu to +18dBu, 0.1dB step, software controlled
Dynamic range	>80dB
Digital Gain Adjust	-10db to +10dB

Main Digital Audio Inputs

Connectors	Balanced XLR, Coaxial
Sample Rates	32, 44.1, 48, 96 kHz
Digital Gain Adjust	-10db to +10dB

Aux MPX (Composite) Input

Connector	BNC Unbalanced
Impedance	10 kΩ
Frequency Range	10 Hz to 200 kHz
Level	100% reference in range -12dBu to +18dBu, 0.1dB step, software controlled

Aux Analog Audio Inputs

Connectors	Balanced XLR
Impedance	600Ω or high impedance
Level	0dBFS reference in range -12dBu to +18dBu, 0.1dB step, software controlled
Dynamic range	>80dB
Digital Gain Adjust	-10db to +10dB

Aux Digital Audio Inputs

Connectors	Balanced XLR, Coaxial
Sample Rates	32, 44.1, 48, 96 kHz
Digital Gain Adjust	-10db to +10dB

MPX (Composite) Output

Connector	BNC Unbalanced, EMI suppressed
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Analog Audio Output

Connector	Balanced XLR
Frequency response	±0.5dB, 5Hz-20kHz
Distortion	<0.01% THD+N
Level	Up to +18dBu, 0.1dB step, software controlled
Dynamic range	>80dB

Digital Audio Outputs

Connectors	Balanced XLR, Coaxial
Sample rate	48kHz

Internal Stereo Encoder

Output level	-18dBu to +18dBu
Pilot level	0% to 15%
D/A conversion	24 bit, differential
SNR	>80 dB (20Hz - 15kHz BW, Digital input ref. to -10dBFS, unweighted)
THD	<0.01% (20Hz - 15kHz BW, Digital input ref. to -10dBFS, unweighted)
Stereo Separation	>60dB
Crosstalk	>70dB
Pilot protection	>90dB rel. to 9% pilot injection, ±250 Hz
38 kHz suppression	>80dB (ref. to 100% modulation)

Audio Silence Detector

Loss Threshold	Adjustable -90dBFS to 0dBFS
Trigger time	1 - 240s
Recover Threshold	Adjustable -90dBFS to 0dBFS
Recover time	1 - 240s

MPX Silence Detector

Loss Threshold	Adjustable 0% to 100%
Trigger time	1 - 240s
Recover Threshold	Adjustable 0% to 100%
Recover time	1 - 240s

SPECIFICATIONS

IP Audio Source	
Number of Streams	1 main & 2 alternative streams with auto-switch on failure
Stream Clients	shoutcast, icecast
Stream Formats	PCM, MPEG1 Layer 3 (Mp3), HE-AAC (v.1&2); all at 32, 44.1, 48kHz only
Bit Rates	All standard bit rates, incl. VBR
Number of Channels	Mono, Stereo
Buffer Size Adjust	5Kb to 64Kb
Digital Gain Adjust	-10db to +10dB

Built-In MP3 Player	
Storage Capacity	2Gb on SD Card
Supported encoders	HE-AAC (v.1&2), MPEG-1 Layer 3
MP3 bit rates	32-320 kbps and VBR
Sample rates	All sampling frequencies specified by MPEG1 L1/2/3 (32,44.1&48kHz)
Supported file types	*.Mp3, *.AAC, *.M4A, *.M3U
Playback modes	Alphabetical ascending & descending, Shuffle, Playlist and Shuffled playlist
Remote file manage	Build-in FTP server
Digital Gain Adjust	-10db to +10dB

Network	
Connector	RJ-45
Type	Ethernet
Device Discovery	UPnP support

User Interface	
Indicators	5 LEDs on front panel, 2 LEDs on rear panel
Web interface	control, configuration and status information
SNMP interface	control, configuration and status information
Front Panel	LCD with Keyboard

Power Requirements	
Voltage	115/230V AC (internal switch), 18VA
Connector	IEC320, rear panel

Operating conditions	
Temperature	10°C - 45°C
Humidity	< 75%, non-condensing

Size and Weight	
Dimensions (W;H;D)	483 x 45 x 160 mm
Shipping Weight	540 x 115 x 300 mm / 2.9kg



WE NEVER SPARE EFFORTS AND RESOURCES TO TURN OUR IDEAS INTO SUCCESSFUL PRODUCTS