Digital Audio for Broadcast

Max Air



96 channel all-digital audio mixing system
designed to ease the transition to digital broadcasting

Be Sure

Euphonix
digital emotion

Broadcast Goes Digital

The whole broadcast chain is moving rapidly to a fully digital world. Converting to an all-digital audio system such as Max Air increases the features available to the operator and simplifies the technical installation of an integrated digital audio and video system. With Max Air, TV shows are more repeatable and downtime is minimized. Go from News at midnight Friday to Sports at 9am Saturday morning.

Maximum Performance & Value

Max Air is a new 96-channel digital audio mixing console specifically designed for on-air and live-to-tape broadcast production applications. Euphonix has built upon years of experience in digital control surface design to provide a compact, and cost effective digital mixing solution that includes all the high performance features and quality that our customers have come to rely on.



Reliability to Be Absolutely Sure

Much of the software and hardware design of Max Air focuses on system and power supply redundancy for increased reliability in critical on-air situations. Distributed industrial processing architecture increases stability and speeds recovery. The redundancy is further backed up by our experienced and qualified customer support team which includes both operational and technical engineering staff.

Max Air Redundancy Packages

Stage 1 (standard):

- Control Surface, DSP Core & System Computer-redundant power and AC mains
- Level 1 RAID (mirrored) 40GB drives
- On-board diagnostic system

Stage 2 (optional) adds:

- Self-healing redundant DSP card fully integrated with the on-board diagnostic system

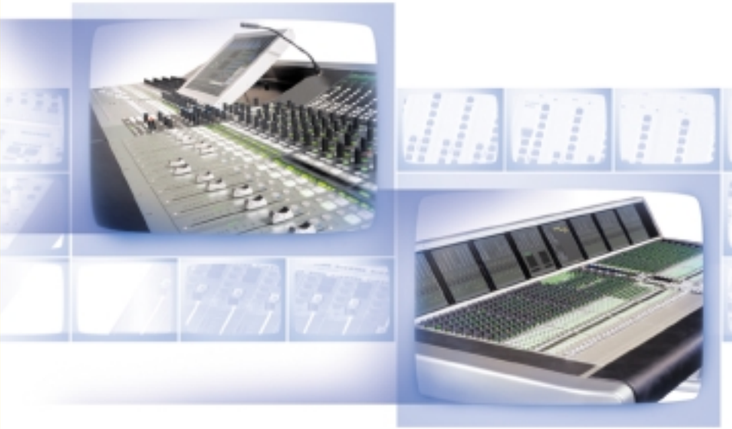
Proven Performance

Max Air is is based on the proven technology and software of System 5. Max Air shares the same DSP core and I/O as System 5 and also includes much of the same processing and control software. With over 100 installations of Euphonix systems in broadcast facilities throughout the world Euphonix's experience and success in broadcast production mixing systems is second to none.

Max Air Main Features

- Size:
  - 96 channels
  - 32 mix buses
  - 24 clean feed/group matrix buses
  - 12 aux sends
  - 24 external inputs
- Based on proven System 5-B technology
- High reliability with built-in redundancy
- Central touch screen interface
- SnapShot Recall of all console settings
- 48 layouts for different surface configurations
- PatchNet—MADI digital router/patchbay
- Surround panning and monitoring as standard
- Dedicated mix minus and insert per channel
- Easy to use and learn—intuitive interface
- Modular surface and I/O
- Small footprint
- High quality audio

Max Air



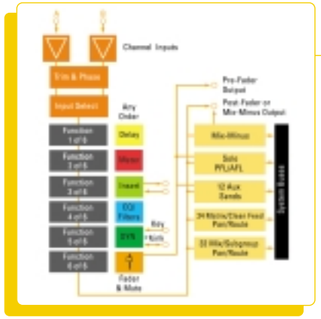
System 5-B

Applications To Meet Any Demand

With System 5-B and Max Air, stations can choose a mixing solution to fit the application and budget. System 5 has a deeper control surface with virtually unlimited I/O for larger installations, but is more expensive. Max Air has a fixed 96 channel count designed for local station and TV news applications and is more cost effective. Larger facilities can install combinations of the two systems. Max Air and System 5-B use the same DSP and I/O hardware and have similar operational features, simplifying installation, spares and training.

Everything You Need is Within Easy Reach

Max Air has been ergonomically designed for fast access and clear display of critical functions on the surface.
Twin 8 character designation displays show sources, and routing is clearly shown at the top of each channel.



Channel Signal Path
The delay, meter, insert, EQ/filters, dynamics and fader may be arranged in any order for a highly flexible signal path to exactly suit operational requirements.

Fader & Surround Panning
Touch sensitive faders jump to position when SnapShots are recalled and have meters positioned to the side. Full 5.1 and LCRS surround panning is standard on all channels with a comprehensive set of panning controls.





Mix Minus
Max Air includes a dedicated Mix Minus bus. The Bus button adds that channel to the bus. The Mix- button sends the bus, less that channel, out of a dedicated channel output. There are a total of 96 mix minus outputs corresponding to one per channel.



4 Assignable Knobs Per Channel
Can be set to operate EQ, dynamics, aux, input and pan or custom combinations of controls. Dedicated buttons select the knob functions on a channel or global basis. All channel functions may also be controlled from the central SuperChannel and touch screen.



Inputs
Each channel has an A and B input with digital line gain, phase reverse and delay. If remote mic preamps are fitted then analog mic gain, phantom and hi pass filter may be controlled from the strip.



EQ, Filters & Dynamics
4 bands of high quality parametric EQ, each with full frequency range and Q control. Plus two filters with hi-pass, lo-pass, band-pass and notch options.
Also available is a Compressor/Limiter or Expander/Gate.



Aux Sends & Routing
Channels may be routed to any combination of the 32 mix buses and 24 clean feed/group matrix buses. There are 12 aux buses, pre or post, as mono or stereo sends.

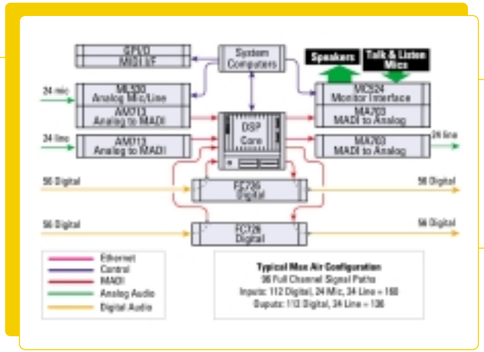
Every Master Feature You Need

With the touch screen, 16 soft knobs mapped to the screen, 8 wild faders, the SuperChannel and dedicated keys for monitors and other critical functions, Max Air's center section is loaded with powerful features for fast access.

SnapShot Recall™ and Layouts

Complete console SnapShot settings may be saved for instant recall. The way channels and groups have been arranged on the control surface may be saved as Layouts for simple recall of different operational configurations.

Modular Digital and Analog I/O
The DSP core has 4 MADI ins and outs each capable of up to 56 channels of audio (24-bit 48Khz). Euphonix provides a range of high quality modular multi-channel converters to connect Max Air to and from analog, AES/EBU, MADI, SDIF2, Pro Digi, TDIF, ADAT and Digidesign Pro Tools™. Remote mic pre-amps are also available controlled from the console.



PatchNet
An on-screen 224 x 224 (basic config size) digital router that replaces a conventional patchbay and handles all console inputs, outputs and internal routing. It is controlled from the touch screen with all settings recallable.

GPI & Events System
The optional GPI and events system allows external control connection to and from devices such as cart machines, and video switchers for audio-follow-video.



SuperChannel
An entire channel fully laid out with dedicated controls for all functions. Any channel can be brought into the center for detailed adjustments and display on the screen. Controls include: routing, EQ, dynamics, filters, pan, mic pre, inputs and aux.

Surround Monitor Section
5 monitor outputs; control room—main plus two alternates, and SLS/Cue outputs Mon A, B, C and D. All monitors can source from external devices, mix outputs and aux sends. Main and Mon A up to 8 speakers, Alt 1 up to 5.1.

AFL/PFL
The solo button on each channel can be set to PFL or AFL. There are separate stereo AFL and PFL buses plus each fader includes backstop PFL. Both buses can be routed to any speakers and the PFL can be routed out of the console for external monitoring if desired.

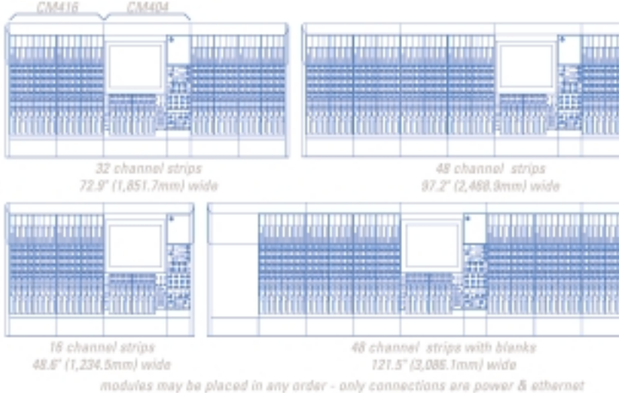
Talkback
Built-in talkback mic can be routed using dedicated buttons on each channel to that channel's mix minus output. Talkback can also be programmed to feed into any combination of the buses. Provision is also made for feeding facility talkback.

Wild Faders
Eight faders situated right in front of the operator that may be assigned to control audio subgroups, level control groups or any combination of channels. Their function is saved with console Layouts for easy recall.

Industrial DSP Core

Powerful high speed processing for up to 96 full audio channels and a MADI router. Modular with redundant PSU and processing capability.





Reach Out and Touch

At the heart of Max Air is the large 17" high-resolution touch screen display. Information such as hi-res metering, EQ and dynamics graphs, patch routing and functions such as system setup and file directory are instantly accessible on over 25 screens. The display also links to the soft knobs situated just below the screen which are mainly used for aux sends or bus masters.



Channel View
All channels parameters in one screen with hi res meters



Group View
Show a channel's group buttons or which channels are assigned to a group



Custom Knob Sets
Allows the functions of the 4 channel knobs to be customized



Metering
As well as the meters next to faders on each Channel Strip, the top part of the touch screen may be locked to continuously show hi-resolution channel meters. Master outputs and Aux sends are also metered on the screen.



Mix Minus
Individual mix minus output levels map to soft knobs with pre/post selection

Max Air Guided Tour

Take a full guided tour of Max Air on the Euphonix website:
www.euphonix.com/broadcast



Patchnet
Digital patchbay with touch screen routing and status display

www.euphonix.com

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