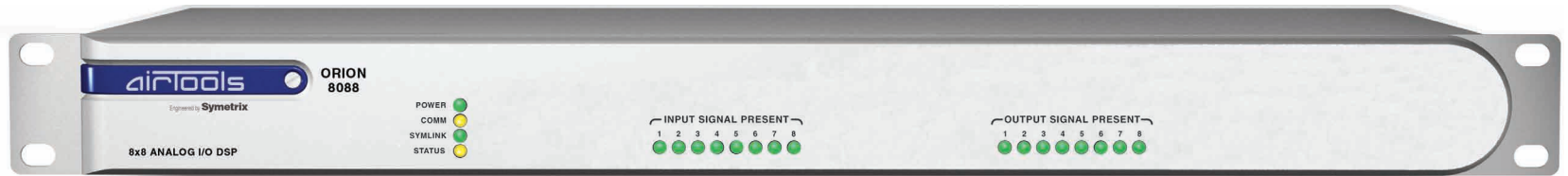


Making Your Job
Easier with Smart
Audio Management
Tools

8088 'Orion' 8x8 Analog I/O DSP

Symetrix has a long-standing relationship with the broadcast industry. For many years broadcast professionals have looked to Symetrix for reliable and dependable operation, the highest quality audio, and technical support that lets them sleep at night. These attributes, along with cutting-edge DSP development, come together in a new line of audio processors specifically designed for broadcasters. We call it **AirTools**. And the latest product to carry this brand is the **Orion 8088 8x8 Analog I/O DSP**.



FEATURES

- Exceptional Sound Quality
- 8 Analog Inputs, 8 Analog Outputs
- Configurable Digital Signal Processing
- Connect Additional Units to Create Larger Systems
- Can Replace Multiple Analog Processors
- Windows Interface
- Control over IP

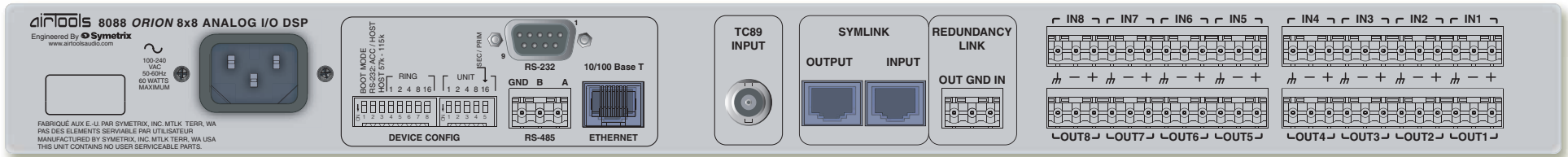
Orion is the latest member of a series of audio processors known as Studio Matrix. Their lineage is proud. They descend from the very successful SymNet Audio Matrix line of modular DSP for the Installed Sound market. The platform is mature, stable, and has delivered solid performance in a variety of demanding installed sound applications throughout the world.

Broadcasters have specific needs that require targeted solutions. Importing on-air content over satellite receivers, for example, has become integral to the daily operation of many radio stations. It is not a perfect system. Level changes between programs can be drastic, forcing the station engineer to set an average level that will be acceptable for most, but optimal for almost none. Orion can keep all your audio levels where you want them.

Orion has eight balanced analog inputs and outputs, and can replace 4 stereo multiprocessors with one rack space in your satellite rack. Using a Windows interface, you decide what processing to use on which signal path. You determine the order of processors in the signal path. Choose from Automatic Gain Control (AGC), Compression, Split-band compression, Highpass filtering, lowpass filtering, and much more. Parameter settings can be stored in up to 1000 presets and recalled through station automation (via RS-232) or by an onboard Event Scheduler which may be sync'd to ESE time code.

...continued on reverse side

8088 'Orion' 8x8 Analog I/O DSP



continued from preceding page...

Satellite receivers are stereo devices. That doesn't mean they'll always receive stereo programming. Sometimes the content provider sends a different show on each channel of a stereo signal. This requires a change in routing that is convenient in some facilities, nightmarish in most.

Splitting stereo signals into discrete paths is a simple matter in Orion. Armed with a number of mixing and routing options such as mono and stereo matrix mixers, mono to stereo mixers, input selectors, output selectors, Orion gives you specialized control of signal routing that the big card frames can't provide.

News producers often need to improvise in order to quickly assemble a collection of assets including less-than-perfect field recordings, actualities brought in over the telephone, and in-studio commentary, in a straightforward, no-nonsense fashion. Orion has the necessary tools to make your news sound better than ever.

Real time audio processing is what Orion is all about. With multiple sources of audio brought into Orion, sophisticated mixing and production can be accomplished quickly. Noisy ENG recordings can be cleaned up with parametric and graphic equalizers, multiple filter types, downward expanders and gates. Custom interface screens can easily be assembled. Recallable mix scenarios, as well as processing functions can be assigned to the Motor Mix control surface from CM Labs for those who want a more familiar tactile interface.

Talk radio studios, by definition, need to control large numbers of microphones from both the audio processing and gain management perspectives. The channel-strip processing found in the typical broadcast console is not always sufficient. Multiple dedicated microphone processors sound better but can be expensive, take up more

rack space, and still don't properly solve the problem of maintaining open mic levels. Orion can do all this and more in just one rack space.

Its sound reinforcement ancestry provides Orion with automatic microphone mixing, referred to as Automixing. The Automixer maintains a consistent output level regardless of the number of open mics in the room. Downward expansion keep channels quiet until the particular microphones are spoken into. Manual gain-riding is no longer required. A priority setting on the host microphone assures that the moderator can regain control of the program at any time.

Mission-critical applications can be backed up with the addition of a redundant Orion unit. A simple three-wire connection ties the primary and secondary units together in logic, while parallel wiring makes audio connections for the pair.

When larger processing needs exist, multiple Orion units can be networked to each other using the proprietary SymLink bus. This connection allows up to 64 channels of audio and control to be sent anywhere within the DSP system. Orion is completely compatible with the six other Studio Matrix processors and is easily integrated into a more expansive processing scheme including AES digital I/O.

Orion provides a straightforward solution for broadcast professionals who need flexible processing for a variety of issues. Find out more at www.airtoolsaudio.com.

© 2001-2004, Symetrix Inc. All rights reserved. Symetrix reserves the right to alter, change, or modify specifications and prices without prior notice. AirTools is a trademark of Symetrix, Inc. All other product names are trademarks or registered trademarks of their respective holders. AirTools products are manufactured in the USA.

Rear Panel Connections

Audio Inputs	Analog Line (x8)
Audio Outputs	Analog Line (x8)
Communications	Ethernet 10/100 Base-T; RS-232; RS-485
External Control	PC interface via Ethernet or RS-232; ESE TC-89 time code
AC Power	Universal input, 100-240 VAC, 50-60 Hz
Redundancy Link	Proprietary link to identical redundant unit

Processing Modules	Primary Function
AGC or Comp-limiter	Places audio program in target 'dynamic window'. Comp-limiter establishes maximum dynamic range.
Downward Expander & Gate	Dynamically reduces low level acoustic noise.
Parametric EQ	Used to sculpt sounds or correct problems.
Filters	6, 12, & 24dB highpass and lowpass, high and low shelving filters, resonant filters in highpass, lowpass, and bandpass.
Automixers	Provide automatic mixing/muting of multiple microphone signals.
Feedback Fighter	Floating filters that cancel feedback when headphones are placed too close to open microphones.
Many More Modules	Too numerous to list. Please download Studio Matrix Designer from www.airtoolsaudio.com and discover for yourself the potential processing power of Orion and the entire Studio Matrix DSP lineup.

Symetrix, Inc.
 Tel. (425) 778-7728
 Fax. (425) 778-7727
 Mountlake Terrace, WA USA
 sales@airtoolsaudio.com
 www.airtoolsaudio.com

