

## Our work has always involved the intersection of audio and networks.

While we support a variety of network connections, IP is the way forward. Leveraging high-volume technologies from the IT world makes sense for the broadcast industry. That's why almost all of our gear has an IP connection for both control and Livewire™ audio. Our new Z/IP codecs are the most advanced way to pass studio-quality audio over unreliable networks such as the Internet and mobile IP services. Axia's Livewire is an efficient, reliable way to transport, route, and distribute audio within broadcast facilities. VoIP systems for studio telephones complete the story. Having always been at the forefront of IP Audio technologies, we have a number of solutions that will enable you to process, encode, transport, and condition your audio for streaming.



The **Omnia ONE Multicast** is Omnia's second generation audio processor for coded audio, featuring the exclusive SENSUS™ audio conditioning technology, a unique way of processing your audio to pre-condition it for HD Radio multicasting, specifically tailoring it for the bitrate that you will be using. Like all Omnia processors, Omnia ONE Multicast gives you maximum flexibility to create your exact signature sound, even under the limitations of bit reduction.

Sporting a brand new platform with more power than its predecessor and only a single rack-space in height, the Omnia ONE Multicast features a wideband gain rider followed by Four Bands of AGC, Four Bands of limiting, SENSUS and Omnia's proven low-distortion look-ahead Final Limiter. Other tech features include time-aligned, dynamically flat crossovers, selectable phase rotator, analog, AES3 and Livewire I/O, automatic input failover on loss of audio, and browser-based remote control /configuration via Ethernet.



The **Telos iPort MPEG Gateway** houses eight stereo MPEG codecs in a single 2RU box, capable of either 8 bi-directional or 16 encode-only channels. It can be used for any application where MPEG encoding and/or decoding is needed for transmission over QoS-controlled IP services. With an appropriate server, the iPort can be used for Internet streaming, broadcasting to mobile phones, and audio distribution systems.

By using state-of-the-art MPEG codec technology, the iPort conserves network bandwidth, while preserving high audio quality. A range of codec types and bitrates are supported. They're all licensed from Fraunhofer IIS, the inventor of MP3 and co-inventor of AAC. They are the highest-possible quality implementations, running on a powerful Intel floating-point processor. The iPort is even Livewire enabled.



**Omnia A/XE** is the processed audio software solution for windows that combines the power and elegance of Omnia processing with advanced encoding capability. A/XE can process audio for a variety of applications, bitrate-reduced and linear. It encodes directly to MP3 or AAC, feeds a Shoutcast-style or Windows Media Server in the MP3 format, or pair A/XE with your existing Windows Media, Real, mpgPRO or MP3 streaming encoder.

The new Virtual Patch Cable allows the A/XE to receive, process, and send audio to other software on the PC. A/XE features adjustable wideband AGC with a three-band compressor/limiter, EQ and low-pass filter, and a precision look-ahead final limiter to prevent clipping. Resulting streams are cleaner, clearer, and with more presence and detail.



The perfect companion to the iPort is the **Omnia 8x**. It provides the power of eight discrete three-band stereo Omnia audio processors in a single, networked box that's Livewire enabled. We started with algorithms modeled after those used in our popular Omnia-3, then refined them even further. Omnia 8x's unique processing architecture is designed to work ahead of any bit reduced audio coder to reduce artifacts and improve the sound of audio destined for HD Radio, Internet and satellite broadcasting.



**Zephyr Xstream** is a rackmount-style transceiver specially designed for use with a single ISDN line or other low-bitrate transmission paths including QoS Guaranteed IP networks. Two-channel flexibility over a single ISDN circuit, or two synchronous links, can be used to transmit and receive 20kHz stereo audio to and from a single location, or two mono channels to and from separate locations. IP streaming is possible with both MP3 and AAC. The Xstream's AAC decoder incorporates error concealment. The Zephyr Xstream is the perfect solution for transmitting audio from remote facilities to a central location for streaming or distribution.

Radio Never Sleeps. Neither do we. We're here for you, anytime, with free round-the-clock, 24/7 technical support. Call +1-216-622-0247.