Manufacturer's Product Numbers
Effective 1 June, 2011

List # 110601

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Section 1: New Products

NEW Omnia.9 Multi-Function Processor

Omnia.9

Omnia.9 NEW

P/N 2001-00292 Omnia.9 FM+HD+Stream Encoding

P/N 2001-00293 Omnia.9 FM+HD+HD2+HD3 Encoding

Simultaneous separate processing cores for FM and HD-1 and (optional) HD-2 and HD-3. Each processing core is fully adjustable with selectable 4, 5, 6 or 7-band processing. Stream encoding built in for Primary Digital (HD-1) and (optional) HD-2 and HD-3. Supports encoding to MP3 (Mpeg-1 Layer 3), MP2 (Mpeg-1 Layer 2), AAC, HE-AAC (including RTSP/3G for streaming to mobile phones), Ogg Vorbis, WMA and WMA Pro. · Contains exclusive "Undo" technology, which removes distortion from source material. This corrects over-processed CDs, so common in today's contemporary music. Psychoacoustic Composite Embedder allows 100% audio peaks in stereo (potentially up to 140%), within 100% total modulation. On-screen keyboard. RDS encoder, dynamically updatable. Selectable SSB (Single Sideband) stereo encoder. HTTP push support for automation, such as dynamic RDS and streaming song titles, preset recall Dayparting (scheduled preset selection). Studio Output with very low latency for talent monitoring. Full remote control. Dual independent power supplies. 3RU

Shipping 3rd Quarter 2011

Omnia.9 HD Upgrade Kit NEW

P/N 2011-00071

Upgrade kit converts a standard Omnia.9 to a Premium Processor by adding on-air processing and encoding/streaming capability for HD-2 and HD-3 services.

Shipping 3rd Quarter 2011

Section 2: **Processors for FM Broadcast**

Omnia.11 Audio Processor for FM

Omnia.11

Omnia.11
P/N 2001-00279

Newly developed intelligent wideband AGC, Newly refined dynamically flat & time aligned crossovers, New dual-topology multiband AGC/Compressor-Limiters using Chameleon Processing Technology, New Density Detector for properly handled hyper-compressed content, New Ultra-LoIMD multiband limiter system with smart gain-reduction technology, New Bass-Management system for unprecedented bass power with no nasty side-effects, New Ultra LoIMD distortion controlled clipper system designed specifically to reduce IM distortion in this critical stage of the processing, Newly refined Integrated laboratory-grade stereo generator with dual composite MPX outputs, 19 kHz reference output, SCA input, >80 dB pilot protection and precision MPX LPF to protect RDS/RBDS and SCA signals, ITU-BS-412 MPX limiter, Newly refined parallel HD processing path with its own final mixer, look-ahead limiter and Sensus technology for HD-1, DAB or Internet stream. Analog, AES/EBU digital (with external sync input) and Livewire I/O, Front panel 10.5" full-color touch-screen GUI, Full remote control with built-in webpage interface via Ethernet port or on-board Wi-FI, Headphone jack with soft "patch points" for listening through the processing chain, Diversity-Delay up to 20 seconds with ramp-in and ramp-out ability, fanless cooling design built into a rugged 4 RU chassis.

Omnia-6EXi HD+FM Precision Audio

Omnia–6EXi HD+FM

Omnia-6EXi HD+FM
P/N 2001-00183

Advanced FM audio processor with parallel processing paths optimized for both conventional and digital FM transmission. Full 20Hz-20 kHz bandwidth and a unique final limiter for DAB systems; New integral fully adjustable diversity delay for HD Radio; New LoIMD non-aliasing digital clipping system, integrated stereo generator with advanced peak control, pilot filter and dual composite MPX outputs for conventional FM. 96 kHz, 24-bit resolution. 6 band limiter, 5 AGC bands, wideband AGC. Twin color displays. Digital and analog I/O with dual AES / EBU outputs. 'HD' output suitable for DAB, internet streaming, satellite, etc. Adjustable AGC crossovers. Stereo EFX enhancement. Dorrough™ Loudness meter. Flexible remote control via Ethernet, serial or modem connection. 3 RU.

Omnia-6EX HD+FM Precision Audio

Omnia-6EX HD+FM

[Omnia-6EX HD+FM]

P/N 2001-00125

Advanced FM audio processor with parallel processing paths optimized for both conventional and digital FM transmission. Full 20Hz-20 kHz bandwidth and a unique final limiter for DAB systems; integrated stereo generator with advanced peak control, pilot filter and dual composite MPX outputs for conventional FM. 96 kHz, 24-bit resolution. 6 band limiter, 5 AGC bands, wideband AGC. Twin color displays. Digital and analog I/O with dual AES / EBU outputs. 'HD' output suitable for DAB, internet streaming, satellite, etc. Adjustable AGC crossovers. Stereo EFX enhancement. Dorrough™ Loudness meter. Flexible remote control via Ethernet, serial or modem connection. 3 RU.

Omnia-6 Upgrades

[Upgrade: Omnia-6EX to Omnia-6EXi HD+FM]

P/N 2011-00041

Omnia-6EXi HD+FM Hardware/Software Upgrade–Adds the new integral diversity delay for HD Radio and the new LoIMD non-aliasing digital clipping system for conventional FM processing to any Omnia-6EX processor. Field upgrade.

Omnia ONE Audio Processor

Omnia ONE FM

[Omnia ONE-FM]

P/N 2001-00220

Single rack space full-featured FM audio processor. 24-Bit processing and converters, Wideband AGC followed by a Four-Band AGC and Four-Band Limiter. Advanced, fully distortion-controlled final limiter/clipper. Integrated digital stereo generator with advanced peak control. Analog, AES/EBU, and Livewire digital inputs and outputs. Two composite MPX outputs, SCA input and 19kHz output. External Sync input to synchronize output sample rate to external reference. Full remote control via RJ-45 Ethernet port using built-in web interface. Built-in stereo headphone jack with level control. Dual software banks, updateable with a simple software download. 1 RU.

Section 3: **Processors for AM Broadcast**

Omnia-5 HD+AM Precision AM Audio

Omnia-5EX

[Omnia-5EX HD+AM]

P/N 2001-00141

Advanced AM audio processor with parallel processing paths optimized for both conventional and digital AM transmission. Selectable 12kHz-20kHz bandwidth and a unique final limiter for DAB systems. Fully distortion controlled final limiter with adjustable positive peak control for conventional AM. Selectable kHz bandwidth and fully distortion controlled final limiter with adjustable positive peak control for conventional AM.96 kHz, 24-bit resolution. 5 band limiter, 2 AGC bands, wideband AGC. Full color display. Digital and analog I/O with dual AES / EBU outputs. Digital output suitable for DAB, internet streaming, satellite, etc. Optional Stereo EFX enhancement (P/N 2001-00009). Flexible remote control via Ethernet, serial or modem connection. 3RU.

Omnia ONE Audio Processor

Omnia ONE AM

[Omnia ONE-AM]

P/N 2001-00219

Single rack space full-featured mono or stereo AM broadcast audio processor. 24-Bit processing and converters, Wideband AGC followed by a Four-Band AGC and a Four-Band Limiter. Advanced, fully distortion-controlled final Limiter/Clipper. Selectable kHz bandwidth. Adjustable NRSC- compliant pre-emphasis / HF EQ. Adjustable positive peak control. Analog, AES/EBU and Livewire inputs and outputs. External AES/EBU Sync input to synchronize output sample rate to external reference. Full remote control via RJ-45 Ethernet port using built-in web interface. Built-in stereo headphone jack with level control. Dual software banks, updatable with a simple software download. 1RU.

Section 4: **Processors for Streaming Audio**

Omnia A/XE Processing Software for PC

Omnia A/XE

[Omnia A/XE]

P/N 3001-00046

Omnia A/XE combines audio processing with MP3 or AAC encoding in one convenient application. Runs silently as a background service, can be fully-managed and configured remotely with a web browser and can process and encode multiple streams in various formats simultaneously. Features a wideband AGC, 3-band compressor/limiter, EQ, low-pass filter and a precision look-ahead final limiter. Encode the processed audio directly to MP3 or AAC streams or feed a remote replication server at the ISP. Virtual Patch Cable allows Omnia A/XE to receive audio, process it, and send it to other software on the same PC. Streams can be “tagged” with "now-playing" information received from automation systems etc. Built-in scheduler for stopping & starting streams or changing processing presets at specific times.Requires Windows XP and later, Minimum 512MB RAM, 20MB free hard-drive space and Network Interface Card.

Omnia.8X Multi-Stream Networked Audio

Omnia.8X

[Omnia.8X]

P/N 2001-00206

Eight discrete 3-band stereo Omnia processors in a single box. Modeled after the Omnia 3 NET, it’s perfect for processing multiple HD Radio channels, sat-casting, Internet audio, etc. Connects to your Axia Network using a single CAT-6 cable for all I/O. Or pair with an Axia AES or Analog Audio Node for use as a standalone multiple-stream processor.

Omnia ONE Audio Processor

Omnia ONE Multicast

[Omnia ONE-Multicast]

P/N 2001-00218

Processing for coded audio streams (including HD radio Streams, netcasting, podcasting, sat-casting, etc.). 24-Bit processing and converters, Wideband AGC followed by a Four-Band AGC, Four-Band Limiter and Ultra low-distortion look-ahead final limiting optimized for the HD codec. Sensus codec conditioning technology. Analog, AES/EBU, and Livewire digital inputs and outputs, External Sync input to synchronize output sample rate to external reference.Full remote control via RJ-45 Ethernet port using built-in web interface. Built-in stereo headphone jack with level control. Dual software banks, updateable with a simple software download. 1 RU.

Section 5: **Omnia Specialty Products**

Omnia ONE Audio Processor

Omnia ONE Studio Pro

[Omnia ONE-Studio Pro]

P/N 2001-00233

Single rack space processor for full-bandwidth studio applications that require minimal delay throughput and maximum audio quality. Four Bands of AGC, Four Bands of limiting, New "Bypass" settings for the final look-ahead limiter and Bass EQ sections, Time-aligned, dynamically flat crossovers, Selectable phase rotator, Automatic input failover on loss of audio, Analog, AES/EBU and Livewire inputs and outputs. External AES/EBU Sync input to synchronize output sample rate to external reference. Full remote control via RJ-45 Ethernet port using built-in web interface. Built-in stereo headphone jack with level control. Dual software banks, updatable with a simple software download. 1RU.

Omnia-CD Precision HD Audio Processor

Omnia-CD

[Omnia-CD]

P/N 2001-00021

Master as loud as you need to while maintaining pristine audio quality. Omnia-CD delivers the smooth sweetened and consistent sound without compromise. 96 kHz, 24-bit resolution. 6 band limiter, 5 AGC bands, wideband AGC. Twin color displays. Adjustable AGC crossovers. Digital and analog I/O, dual composite outputs. Stereo EFX enhancement. Dorrough™ Loudness meter. Ethernet and serial ports. Dual PC card slots for memory and optional modem. Complete with a choice of two final limiter algorithms specially designed for CD mastering, which allows engineers to create “hotter” cuts with lower distortion 3RU.

Stereo Generator for FM Radio Broadcast

Omnia.sg

[Omnia.sg]

P/N 2001-00047

Standalone all-digital stereo generator for applications where audio processing is performed remotely from transmitter. Also, useful in FM HD Radio installations for generating a clean composite FM signal from the delayed AES output of the HD Radio signal generator. Includes composite clipper & low-pass filter. Digital & analog inputs, dual-composite outputs, SCA loop-throughs. Software upgradeable via RS-232. Remote control capable. 1 RU.