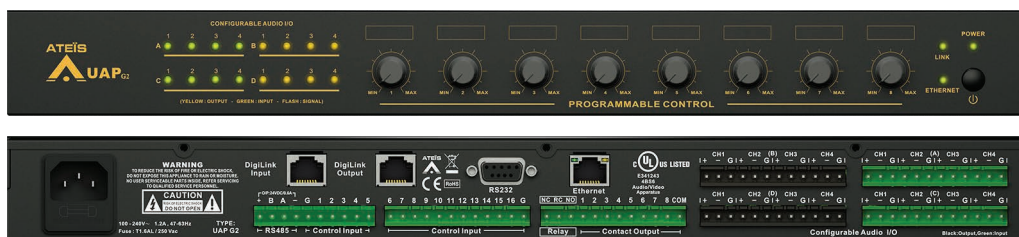


UAP G2



Universal Audio Processor Generation 2

Designed for small to medium installations, the UAP G2 is a highly versatile drag and drop DSP audio processor. Hardware systems configuration is highly flexible in blocks of 2 for 4 in/12 out 6 in/ 10 out etc. configurations. Up to 12 UAP G2 units can be networked together for I/O expansion.

8 front panel knobs can be programmed to map to any functions within the DSP library and can be scaled to match the requirements of the project. Up to 53 minutes of audio storage is built-in (16 kHz, 16 bits) and audio files can be activated via a built-in scheduler, any of 16 resident TTL inputs, or via an end user GUI interface custom built for each application.

The PC-based UAP G2 system software provides all the necessary tools to setup, configure, control and monitor the entire system. Third Party control systems such as Crestron, AMX, Vity etc. can also control the UAP G2 either via RS232 or IP commands. A variety of accessories, including RAC 5/8 low cost analog controller, URC-150 programmable remote controller, and various paging and control microphones (PPM-SP/PPM-IT5) are available.

FEATURES

- Up to 16 analog inputs/outputs
- Configuration via PC/Laptop
- Programmable, scalable front panel knobs for DSP functions
- Third Party control via RS232 or IP commands
- Full DSP drag and drop component library
- Up to 53 minute build-in message storage
- 16 built-in TTL inputs and 8 logic outputs
- Stack up to 12 units
- CE and UL listed
- 5 year warranty

ACCESSORIES



URC-150
Programmable remote controller
(RS485)



URC-200
Programmable remote controller
(TCP/IP)



NSM
Sensing microphone



RAC 5 / RAC 8
5/8 Steps Level and Source Selector
(Available for EU & US type)



PPM-SP / PPM-KP / PPM-SPWJB
Programmable Paging Console

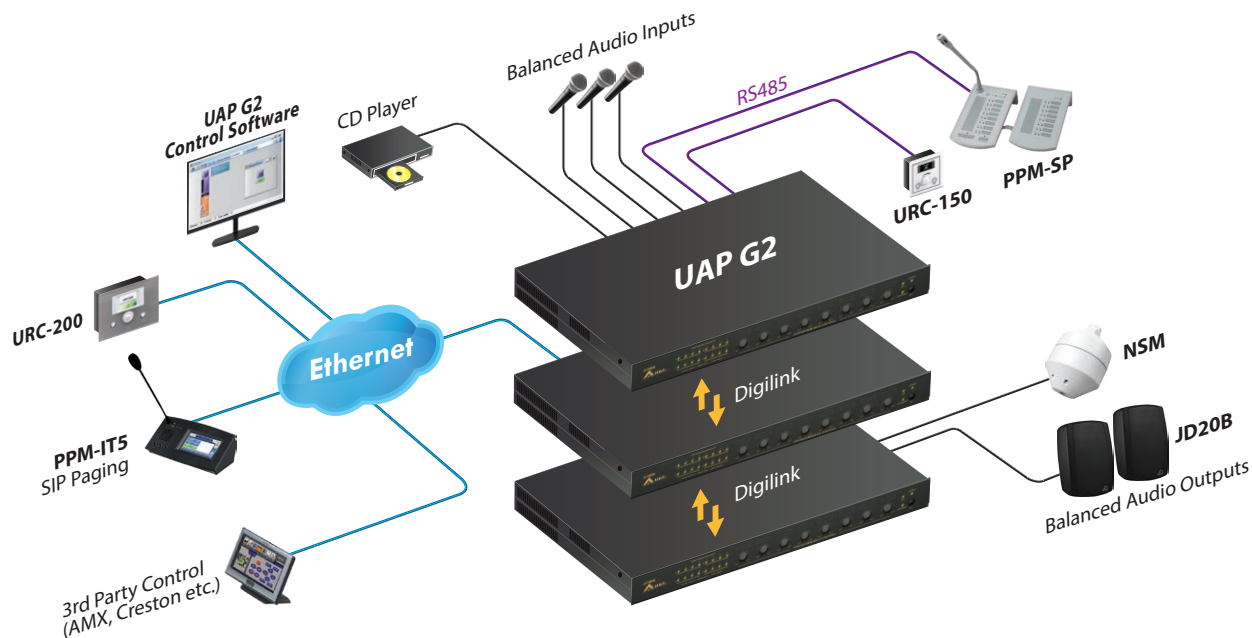


PPM-IT5
Programmable IP Paging Console
with Color Touch Screen

UAP G2

Universal Audio Processor Generation 2

APPLICATION EXAMPLE



DRAG N DROP DSP COMPONENTS

- Delays: 5 ms to 2000 ms
- Dynamics: AGC (mono and stereo), Automatic Noise Sensing, Compressor, Comp-limiter, Expander (mono and stereo), Ducker (mono and stereo), Mono and Stereo Gate, Voice Gate, Gate with Sidechain.
- Equalizers: Mono and Stereo GEQ (1 Octave, 2/3 Octave, 1/3 Octave), Mono and Stereo PEQ (2, 4, 6, 8, 10, 16 bands).
- Feedback Cancellation: Dynamic Feedback cancellation 1/5, 1/10, 1/20, and 1/100 Octave with 4, 8, 12, or 16 bands.
- Inverter
- Level Controls: 1 x 1, 4 x 4, 8 x 8, 16 x 16.
- Local Echo Suppression Module.
- Logic: AND, NOT, OR, NOR gates with Net Input/Output for network applications.
- Meters: 1 CH, 4 CH, 8 CH, 16 CH Peak/RMS meters.
- Message Repeater: Up to 53 minutes of audio can be stored inside the box and output 2 separate messages simultaneously to independent zones. Messages can be activated using TTL inputs or via the built-in Scheduler.
- Mixers: Automixers, Automixers with Mix Minus, Matrix Mixers, Standard Mixers, and Room Combiner.
- Noise Generator – White, Pink, Tone.
- Page Control Module: or zone paging applications.
- Selectors: 4 x 1, 5 x 1, 6 x 1, 7 x 1, 8 x 1, 16 x 1, 32 x 1 for use with Third Party control or RAC, URC-150 remote controllers.
- Custom Components: Build your own program within the program and password protect it.

HARDWARE COMPONENTS

- Main Frame – 4 slots for input/output cards, 16 TTL/Analog Inputs, 8 TTL Outputs, RS485, RS232 Port, Ethernet Port.
- Input Card – 4 Channels with individual Bypass, Mute, Sensitivity Select, Phantom Power, Mute, RTO (route to output), VU Meter, Signal Present, Level Control and adjustable Overload Threshold.
- Output Card – 4 Channels with individual Overload Indicator, Mute, Meter, Signal Present, Level Control, and adjustable Overload Threshold.
- Input/Output Card (with 2 Inputs and 2 Outputs) - individual Overload Indicator, Mute, Meter, Signal Present, Level Control, and adjustable Overload Threshold.

ARCHITECTURAL & ENGINEERING SPECIFICATIONS

The audio processor shall be available for 4In12Out, 8In8Out, 12In4Out, 16In or 16Out audio I/O. Mic/line Input and line level output options shall be available. Inputs/outputs shall be analog, with internal 24-bit A/D & D/A converters operating at a selectable sampling rate of 48 kHz or 96 kHz. All internal processing shall be digital (DSP). Electronically balanced inputs and outputs shall be provided on plug-in barrier-strip connectors. The level of Mic in/Line in shall be individually programmable and have assignable 48V phantom power. System shall be expandable to up to 12 audio processors via Digital Links using STP CAT5/6 cable with shielded RJ45 connector, up to 32 feet between any of the two processors (max.). Digital expansion links shall share up to 16 channels of digital audio at 48kHz or 5 channels of digital audio at 96kHz sampling rate between multiple units.

The PC-based software shall be "Drag and Drop" configuration with separate control/monitor GUI via direct data connection or via LAN/WAN using TCP/IP protocol. The DSP component library shall include (but not be limited to) various forms of: mixers, equalizers, filters, crossovers, dynamics/gain controls, feedback controller, routers, delays, remote controls, meters, noise/tone generators, and diagnostics. Ethernet communications shall be utilized for local or remote software control, configuration, and DSP distribution. After initial programming, systems may be controlled/monitored using either TCP/IP or RS-232 serial communication by third party control systems (such as AMX® and Crestron®) via a computer. And/or by dedicated remote control devices. Software shall operate on a computer running Windows® XP Professional/Vista/Windows 7.

DSP shall include two types of presets – "Master" and "Sub-Preset." There shall be a minimum of 32 Master Presets, allowing to switch to different pre-programmed designs, and a minimum of 16 Sub-Presets, allowing to switch to pre-programmed parameter settings within each Master Preset. The DSP shall incorporate an audio message player that can store up to 36-minutes of 8bit audio or 18-minutes of 16bit audio. Audio messages can be played either manually via direct PC selection, external analog/TTL logic input, programmable button on paging console or automatically via internal event scheduler. Messages can be manually or automatically routed to any single or multiple zones/outputs. There shall be up to 128 schedules with up to 100 programmable scheduled events per schedule.

The audio processor shall incorporate 16 logic inputs to trigger events, presets and other logic functions and 8 logic outputs with a common rail contact for controlling external functions. The unit shall also be equipped with 8 front panel control knobs, which shall be totally programmable for any variable DSP element settings in the design program. This function knob shall also be 100% scalable to limit amount of volume/control. Front panel shall also have multi-color LED for displaying input/output signal presence, routing, and clipping indication for each input and output.

DSP shall contain both TTL Logic and RS-485 serial control ports for communicating with a myriad of remote controls and microphone paging stations including 5/8 steps level and source selector (RAC 5/RAC 8), programmable remote controller with LCD panel (URC-150) and Ethernet universal programmable remote controller with LCD panel (URC-200). The remote paging stations shall also be available, which incorporate up to 256 programmable zone buttons with keypad expansion units. Multiple remote devices can also be daisy-chained by installing the PPM JB junction box, the PPM JB can be powered from the processor or 24VDC local power supply. The audio processor shall be UL/C-UL listed and factory warranted for 5 years.

SPECIFICATION

- Frequency response: 20 Hz ~ 20 kHz @ 4 dBu (±0.6 dB)
- Dynamic range: >105 dB
- Maximum gain: 66 dB
- Crosstalk: Line <- 78 dB, Mic <- 73 dB
- Output impedance: 200 ohms
- Input impedance: 8k ohms
- Maximum output: 24 dBu
- Maximum input: 24 dBu
- Phantom power: 48VDC / 14mA
- Input gain range: 0 to 54 dB
- Sampling rate: 48 kHz or 96 kHz (selectable)
- A/D D/A converters: 24 bit

MECHANICAL

- Dimensions (W x H x D) : 432 x 44 x 245 mm (17 x 1.7 x 9.3 inch)
- Weight: 3.5 kg (7.7 lbs)
- Mounting: 19" 2U rack
- Colour: RAL 7016