

Technology

```
Process Information
Member.Caption := IntroStr(getpid());
Number.Caption := IntroStr(getppid());
ID.Caption := IntroStr(getuid());
UserID.Caption := IntroStr(geteuid());
GroupID.Caption := IntroStr(getgid());
GroupID.Caption := IntroStr(getegid());
Login := getlogin();
Name.Caption := LoginString;
Record := getpwent(PChar(LoginString));
Name.Caption := PasswordRecord.pw_name;
Directory.Caption := PasswordRecord.pw_dir;
Program.Caption := PasswordRecord.pw_shell;
GetEnvironmentInformation
Open.Caption := getenv('PATH');
```

Axia Audio Performance Specifications

[print this page](#)

Microphone Preamplifiers

Source Impedance: 150 ohms

Input Impedance: 4 k ohms minimum, balanced

Nominal Level Range: Adjustable, -75 dBu to -20 dBu

Input Headroom: >20 dB above nominal input

Output Level: +4 dBu, nominal

Analog Line Inputs

Input Impedance: >40 k ohms, balanced

Nominal Level Range: Selectable, +4 dBu or -10dBv

Input Headroom: 20 dB above nominal input

Analog Line Outputs

Output Source Impedance: <50 ohms balanced

Output Load Impedance: 600 ohms, minimum

Nominal Output Level: +4 dBu

Maximum Output Level: +24 dBu

Digital Audio Inputs and Outputs

Reference Level: +4 dBu (-20 dB FSD)

Impedance: 110 Ohm, balanced (XLR)

Signal Format: AES-3 (AES/EBU)

AES-3 Input Compliance: 24-bit with selectable sample rate conversion, 32 kHz to 96kHz input sample rate capable.

AES-3 Output Compliance: 24-bit

Digital Reference: Internal (network timebase) or external reference 48 kHz,
+/- 2 ppm

Internal Sampling Rate: 48 kHz

Output Sample Rate: 44.1 kHz or 48 kHz

A/D Conversions: 24-bit, Delta-Sigma, 256x oversampling

D/A Conversions: 24-bit, Delta-Sigma, 256x oversampling

Latency <3 ms, mic in to monitor out, including network and processor loop

Frequency Response

Any input to any output: +0.5 / -0.5 dB, 20 Hz to 20 kHz

Dynamic Range

Analog Input to Analog Output: 102 dB referenced to 0 dBFS,
105 dB "A" weighted to 0 dBFS

Analog Input to Digital Output: 105 dB referenced to 0 dBFS

Digital Input to Analog Output: 103 dB referenced to 0 dBFS, 106 dB "A" weighted

Digital Input to Digital Output: 138 dB

Equivalent Input Noise

Microphone Preamp: -128 dBu, 150 ohm source, reference -50 dBu input level

Total Harmonic Distortion + Noise

Mic Pre Input to Analog Line Output: <0.005%, 1 kHz, -38 dBu input,
+18 dBu output

Analog Input to Analog Output: <0.008%, 1 kHz, +18 dBu input, +18 dBu output

Digital Input to Digital Output: <0.0003%, 1 kHz, -20 dBFS

Digital Input to Analog Output: <0.005%, 1 kHz, -6 dBFS input, +18 dBu output

Crosstalk Isolation and Stereo Separation and CMRR

Analog Line channel to channel isolation: 90 dB isolation minimum, 20 Hz to 20 kHz

Microphone channel to channel isolation: 80 dB isolation minimum, 20 Hz to 20 kHz

Analog Line Stereo separation: 85 dB isolation minimum, 20Hz to 20 kHz

Analog Line Input CMRR: >60 dB, 20 Hz to 20 kHz

Microphone Input CMRR: >55 dB, 20 Hz to 20 kHz

Power Supply AC Input

Auto-sensing supply, 90VAC to 240VAC, 50 Hz to 60 Hz, IEC receptacle, internal fuse

Power consumption: 35 Watts

Operating Temperatures

-10 degree C to +50 degree C, <90% humidity, no condensation

Dimensions and Weight

Microphone node: 1.75 inches x 17 inches x 10 inches, 6 pounds

Analog Line node: 1.75 inches x 17 inches x 10 inches, 6 pounds

AES/EBU node: 1.75 inches x 17 inches x 10 inches, 6 pounds

Router Selector node: 1.75 inches x 17 inches x 10 inches, 6 pounds

GPIO node: 1.75 inches x 17 inches x 13 inches, 8 pounds

Studio Mix Engine 3.5 inches x 17 inches x 15 inches, 10 pounds

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