

# FIR DSP AUDIO PROCESSOR

Model: DAP0306Pro

Brand: Gateway



When we started to focus on the application of FIR linear phase

DAP0306Pro is a 3in6out high-performance DSP speaker processor, 20dBu large dynamic signal processing, AES/EBU digital interface and optional Dante network audio, which can meet the needs of sound amplification in different occasions. FIR function provides with convenient linear magnitude phase, so that the debugging effect of speaker engineers has more possibilities.

## Features

- ❖ DSP 96k 24bit 3in6out matrix processing
- ❖ Dynamic EQ
- ❖ Parameter EQ
- ❖ Wide variety of filter types
- ❖ FIR filter and 48k linear process
- ❖ Neutrik® XLR input and output connectors
- ❖ PFC power supply AC90~264V
- ❖ Support AES/EBU digital input
- ❖ Dante network audio in option
- ❖ Gateway control software

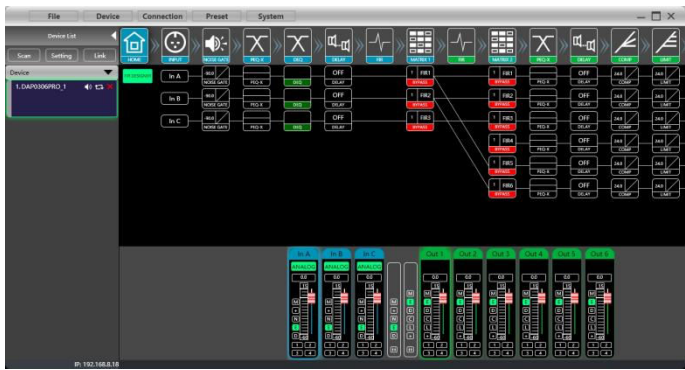
## Application

Stage

Bar

Restaurant

Outdoor performance



Main



FIR linear phase process

# Specification - DAP0306Pro

## ▼DSP process

|          |                        |
|----------|------------------------|
| Process  | ADI SHARC 21489 400MHz |
| Sampling | 96k                    |
| AD/DA    | 24bit                  |

|              |        |
|--------------|--------|
| System delay | <2.1ms |
|--------------|--------|

#### ▼Analog signal

|                  |                                  |
|------------------|----------------------------------|
| Input            | 3 channels, line level, balanced |
| Input impedance  | 20k $\Omega$                     |
| Max input level  | 20dBu                            |
| Output           | 6 channels, line level, balanced |
| Output impedance | 50 $\Omega$                      |

#### ▼Audio performance

|                    |                                |
|--------------------|--------------------------------|
| Frequency response | 20Hz-20kHz( $\pm$ 0.5dB)/Line  |
| Ground noise       | 20Hz-20kHz, -93dBu(A-wt)       |
| THD+N              | -92dB(@0dBu, 1kHz, A-wt)/Line  |
| SNR                | 113dB(@20dBu, 1kHz, A-wt)/Line |

#### ▼Connectors and display

|              |                                                              |
|--------------|--------------------------------------------------------------|
| Audio signal | Input 3×XLR female, output 6×XLR male; Dante 4×4 (in option) |
| Control      | USB-B, RJ45 dual-ports (TCP/IP), RS232                       |
| Display      | 2*24 LCD display                                             |
| Indicator    | Level/Clip/Limit/Mute/Edit                                   |

#### ▼Electrical and physical parameters

|              |                            |
|--------------|----------------------------|
| Power supply | AC90~264V 50/60Hz          |
| Temperature  | -20° C~60° C               |
| Dimension    | 483mm*265mm*44.5mm         |
| Weight       | Device 3.6kg, packed 4.4kg |

