

FEATURES

ADA416D

Isolated balanced output
24 bit Audio design
AES/EBU and SPDIF
Isolated balanced Input
Redundant power supply
Up to 192 Khz Sample rates
19" Rack Mounting



Digital ADA416D

APPLICATIONS

Digital Audio Distribution
Production Studios
Transmission Set up
OB Vans
Concerts

Automation systems
Word Clock Distribution
Field Production
Music Recording

Digital Technology is changing the workflows very fast, and keeping pace with them are Comcon products. **ADA416D** is the most flexible, high quality, digital audio distribution unit. The most Unique feature of the ADA-416D is its Intelligent Black box working. The ADA performs excellently well for sample rates from 28 Kbps to 192 Kbps without any adjustments.

The Inputs and outputs are transformer isolated and balanced. The input side there is optional provision for a special transformer with dual windings, allowing it to be used for either 75 ohms or 110 ohms inputs (any one of the two).

Similarly output stage is designed to provide for up to six outputs for each input section. Each output has isolation transformer with dual out put impedance matching for 110 ohms or 75 ohms. This flexible input output combination is field selectable through use of dip switches and/or different break out panels & cables.

On performance the ADA-416D is a top performer with capabilities from 28 KHz to beyond 192 KHz sample rates. The sample rate is auto selected within the range and whatever sample rate signal comes in the same that gets out. The input level is also automatic and does not need adjustments. Output level is always standard with driving capabilities in excess of 5 Volts Peak to peak in 110 ohms.

Each DA section is independent except the common power supply, and the 1U unit has a provision for up to four such sections. The power supply could be redundant as an option. The maximum six sections can accept any combination of signal, AES/EBU digital audio distribution or SPDIF digital audio distribution. Outputs combinations are available on various types of connectors through breakout panels from 15/25 pin DIN connectors at the back of unit.

The power supply is through IEC receptacle meeting the international safety regulations.

Technical Specifications

ADA416D

Input

Number of amplifiers AES/EBU (inputs)	Up to 6 maximum
Input Impedance AES/EBU	110 ohms on balanced XLR (Breakout /back panel)
Input Impedance SPDIF	75 ohms with BNC (Breakout /back panels)
Sensitivity	200 mV p-p
Sample Rate	28 kHz to 192 kHz meeting AES3 1992 Specifications

Out Put

Numbers of output per input	4 standard for each input (Maximum up to 24 No's)
Connectors	D type, XLR (with or without breakout panels) BNC (with or without breakout panels)
Impedance	110 ohms balanced transformer isolated. 75 Ohms Unbalanced
Sampling Rate	20 kHz to 192 kHz meeting AES3 1992 Specifications
Jitter	0.5 nano seconds or less
Level	≥5 volts P-P AES/EBU signals ≥2volts P-P SPDIF signals

Physical

Weight	≈4 Kg
Power Consumption	<20 VA (under normal use) with front indicator switch
Size	44mmx483mmx275mm(1.75"X19"X11") for 1RU unit 88mmx483mmx275mm(3.50"X19"X11") for 2RU unit 44mmx483mmx98mm(1.75"x19"x4") for breakout panel
Power Supply	230Volts AC ±10% 50Hz ±4%
Mounting	19" Rack Mounting

Environmental

Operating temperature	0°C to 50°C
Humidity	0 to 95% Non-condensing

*Specifications are for a standard product and are subject to revision.

*Images are for reference purpose only, and may or may not showcase all available options

*Several Input-Output combinations and optional features available, with or without breakout panels. See ordering information for some options.

Ordering options/Optional Features

Additional outputs
Input level bar graph / Fault LED

Headphone monitoring
Redundant power supply
Extended Control

Up to six per input not exceeding 24 total
One bargraph selectable to any input
LED for each input fault
One selectable with the bar graph channel
With Auto change over
LCD display and buttons

Common Configurations

1 IN 20 OUT

- 1 Input, 20 Outputs, all balanced XLR connectors

2 IN 20 OUT

- 2 Inputs, 10 Outputs for each input, all balanced XLR connectors

4 IN 20 OUT

- 4 Inputs, 5 Outputs for each input, all balanced XLR connectors

4 IN 16 OUT

- 4 Inputs, 4 Outputs for each input, all balanced XLR connectors



Other combinations with optional features available. Please discuss your requirements