

# Accuphase

DIGITAL INPUT BOARD

# DAC-50

Supported Sampling Frequencies

[DSD] 11.2 MHz / 1-bit

[PCM] 384 kHz / 32-bit



Digital Input Board With USB, Optical, and Coaxial Inputs

## Convert signals from various digital source components into high-quality analog signals

The DAC-50 is an optional digital input board that supports a broad range of digital sound sources and is equipped with a high-precision MDS type D/A converter for optimal sound quality. The converter uses AK4490EQ chips from Asahi Kasei Microdevices in a double parallel configuration per channel. Installing the board in a slot on the rear panel of a supported Accuphase component provides direct input capability for signals from digital components for high-grade playback. Three types of inputs are provided: USB (Type B), OPTICAL (for optical fiber cable), and COAXIAL (for coaxial cable). The USB input handles signals up to 11.2 MHz / 1-bit [DSD] and 384 kHz / 32-bit [PCM], the coaxial input supports up to 192 kHz / 24-bit and the optical input up to 96 kHz / 24-bit.

### Input selection method

#### C-2120, E-650, E-600, E-470, E-370, E-270

When the DAC input selector button or DAC input selector switch on the respective component is used to select the DAC-50 signal, the sampling frequency of the locked signal is shown on the display.



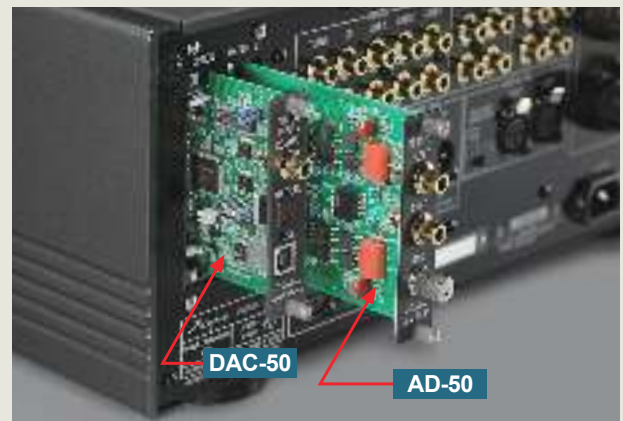
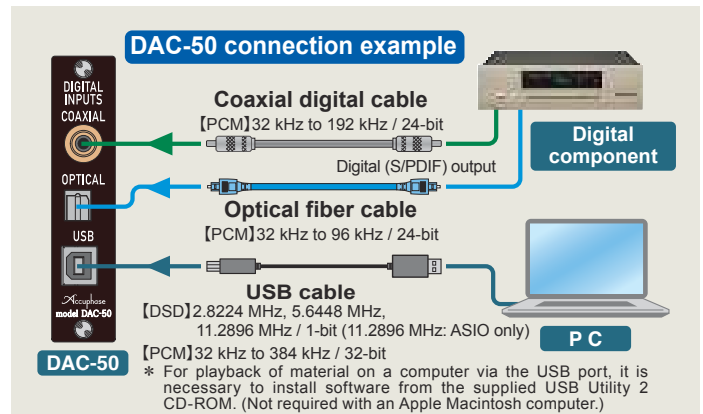
Sampling frequency display example

#### Other models



Input selector

- If multiple digital input signals are supplied at the same time, and OPTION is selected with the input selector, the unit automatically locks onto a signal using the following priority sequence: **COAXIAL** → **OPTICAL** → **USB**.
- To exclude a signal from being selected, either disconnect the cable from the component that is not needed for playback, or turn the power switch of that component off.



Installation example DAC-50 installed in option board slot on rear panel

## DAC-50 Specifications

### "2MDS" type D/A converter

- **USB**
  - Format: USB 2.0 Hi-Speed (480 Mbps) compliant
  - Sampling frequencies: 2.8224 MHz, 5.6448 MHz, 11.2896 MHz (1-bit 2-channel DSD) (11.2896 MHz: ASIO only) 32 kHz – 384 kHz (16 – 32-bit 2-channel PCM respectively)
  - Suitable cable: USB 2.0 cable with Type B connector (max. 2 m)
- **OPTICAL**
  - Format: JEITA CP-1212 compliant
  - Sampling frequencies: 32 kHz – 96 kHz (16 – 24-bit 2-channel PCM respectively)
  - Suitable cable: JEITA standard optical fiber cable
- **COAXIAL**
  - Format: IEC 60958 AES-3 compliant
  - Sampling frequencies: 32 kHz – 192 kHz (16 – 24-bit 2-channel PCM respectively)
  - Suitable cable: 75-ohm coaxial digital cable

Supplied accessory ● USB Utility 2 CD-ROM

### About sampling frequency display when DAC-50 is installed in C-2120, E-600, E-470, E-370, or E-270

Sampling frequencies up to 192 kHz are shown as is. Signals with the following sampling frequencies are handled without problem, but the indication is always "192.0 kHz":

[DSD] 2.8224 MHz, 5.6448 MHz, 11.2896 MHz  
[PCM] 352.8 kHz – 384 kHz

### Supported models

- **Preamplifiers**  
C-2000, C-2110, C-2120, C-245 (\*), CX-260 (\*)
  - **Integrated amplifiers**  
E-213, E-250, E-260, E-270, E-307 (\*), E-308 (\*), E-350, E-360, E-370, E-408, E-450, E-460, E-470, E-530, E-550, E-560, E-600, E-650
- Input selection, sampling frequency display and other specifications differ depending on the model.  
(\*: Installing two DAC-XX boards is not supported.)

- \* The capability for playback of music data via USB depends on the operating system and music playback software of the computer.
- \* For information on settings for USB and connection methods, please refer to the computer documentation.

\*Specifications and design are subject to change without notice for improvements.