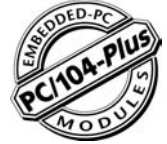
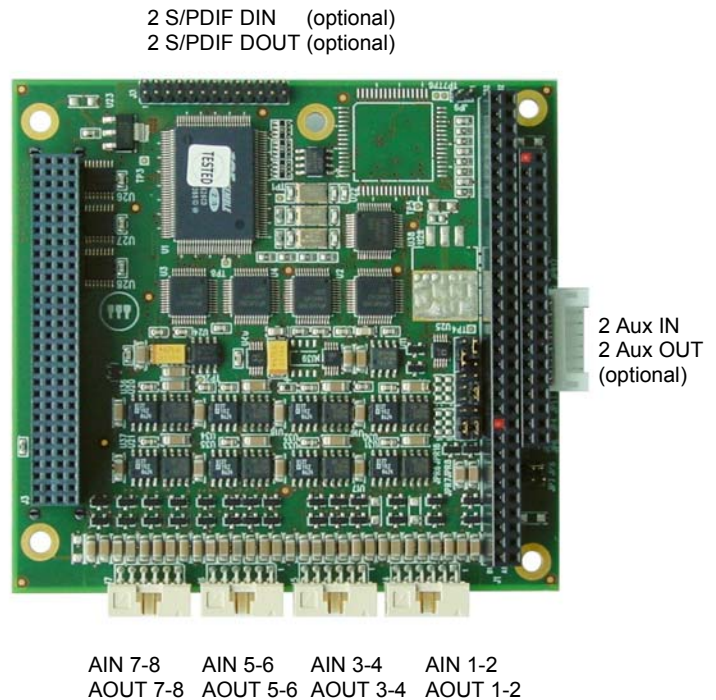


# INT-1410

**4-CODEC AUDIO MATRIX PC/104-PLUS MODULE (ROHS)**

## Features

- PC/104-Plus compliant architecture
- 8 differential analog input channels (AIN1~AIN8) and 8 differential analog output channels (AOUT1~AOUT8) with 4 programmable front-end audio CODECs
- 2 auxiliary analog input and 2 auxiliary analog output channels with an additional programmable front-end audio CODEC (optional)
- 2 digital S/PDIF input (DIN1&2) and 2 digital S/PDIF output (DOUT1&2) channels (optional; requires an external transceiver)
- PCI interface managing:
  - Play DMA stream: 10-ch main + 2-ch aux
  - Record DMA stream: 12-ch main + 2-ch aux
- Switch matrix:
  - Inputs: AIN1~AIN8, DIN1&2 MIX1&2 and Play DMA
  - Outputs: AOUT1~AOUT8 and DOUT1&2
- 2-channel mixer (capable of mixing the 8 analog inputs, the 2 digital inputs and the 10-channel play DMA stream)
- 4-to-2 wire converter on an analog input/output channel pair
- Two-way echo canceller on an analog input/output channel pair (optional)
- 1 W Power amplifier on an analog output channel (optional)
- Preamplified microphone input on an analog input channel (optional)



## General Description

The INT-1410 Audio Matrix is a PC/104-Plus audio peripheral board aimed for managing up to 8 analog input and 8 analog output channels, with programmable front-end audio CODECs, and up to 2 digital (S/PDIF) input/output channels. Other options include 2 auxiliary analog input and 2 auxiliary analog output channels with a programmable front-end audio CODEC.

The onboard PCI interface manages the 10-channel play DMA stream and the 12-channel record DMA stream of the main channels as well as the 2-channel play DMA stream and the 2-channel record DMA stream of the auxiliary channels.

The onboard features include a switch matrix that allows the user to select the driving source of each of the 8 analog output and the 2 digital output channels. A 2-channel mixer which can mix the 8 analog inputs, the 2 digital inputs and the 10-channel play DMA stream is also available as well as a 4-to-2 wire converter on an analog input/output channel pair.

Optional features include a two-way echo canceller on an analog input/output channel pair, a 1-watt power amplifier on an analog output channel and a preamplified microphone input on an analog input channel.

The board is fully compliant with the 2002/95/CE (RoHS) directives and can be qualified inside the standard (0 ~ + 60 °C) and extended (-40 ~ + 85 °C) temperature ranges.

ETH\_INT-1410\_DS030707

## Physical Characteristics

- **Dimensions:** 90 x 96 mm (3.6" x 3.8")
- **Height:** 11 mm (0.4")
- **Power supply:** Single +5V DC +/- 5%
- **Power consumption:** 5W maximum
- **Operating Temp:** 0 ~ + 60 °C (standard)  
-40 ~ + 85 °C (extended)
- **Humidity:** Up to 95% at 40 °C  
non-condensing

## Options

- Extended operating temperature range
- Conformal coating
- Custom Connectors
- 2 digital (S/PDIF) input and 2 digital (S/PDIF) output channels (requires an external transceiver)
- Auxiliary programmable front-end Audio CODEC
- Two-way echo canceller on an analog input/output channel pair
- Power amplifier on an analog output channel
- Preamplified microphone input on an analog input channel

**NOTE: Contact Eurotech for the availability of options**

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