# 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)





2 Aux IN 2 Aux OUT (optional)

#### AIN 7-8 AIN 5-6 AIN 3-4 AIN 1-2 AOUT 7-8 AOUT 5-6 AOUT 3-4 AOUT 1-2

# **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  $\sim$  + 60 °C) and extended (-40  $\sim$  + 85 °C) temperature ranges.

ETH\_INT-1410\_DS030707

DIGITAL TECHNOLOGIES FOR A BETTER WORLD



www.eurotech.it

# INT-1410

# **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

Note: The information in this document is subject to change without notice and should not be construed as a commitment by EuroTecH S.p.A. While reasonable precautions have been taken, EuroTecH S.p.A. assumes no responsibility for any error that may appear in this document. All trademarks or registered trademarks are the properties of their respective companies.

ETH\_INT-1410\_DS030707



EuroTecH SpA a member of the Eurotech Group Via Fratelli Solari, 3/a 33020 Amaro (UD) - Italy E-mail: sales@eurotech.it Tel. +39 0433 485 411 - Fax. +39 0433 485 499 DIGITAL TECHNOLOGIES FOR A BETTER WORLD

www.eurotech.it