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# UcD102 OEM

Evaluation tool factsheet

## UcD102 OEM evaluation board

## Introduction

This OEM Connector conversion board is specifically designed to make it easy to evaluate the UcD102 OEM module.

The amplifier module can be switched on or off using the on-board Amp Enable switch.

It features 4-pin MOLEX® Micro-fit 3.0™ series connectors for audio input signals.

## Features

- Allows for easy evaluation of the UcD102 OEM
- Amp Enable switch
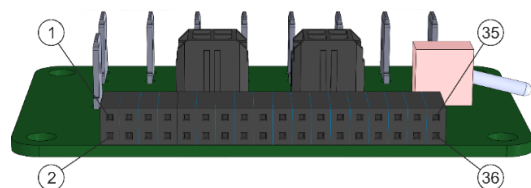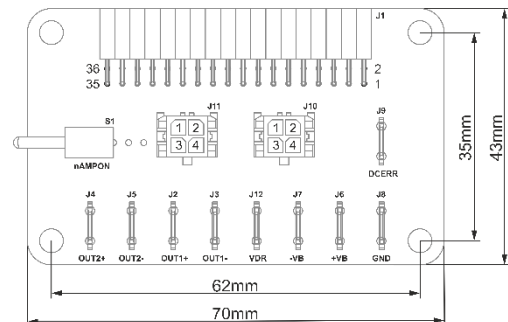- Hypex NCore Signal cable compatible

## Connector Pins

### Pinout J1, OEM connector

This pin-out is given for convenience only, it should be connected directly to the UcD102 OEM module.

| Pin | Function |
|---|---|
| 1, 2 | Loudspeaker 1 connection (hot) |
| 3, 4 | Loudspeaker 1 connection (cold) |
| 5,15,16,22,32 | Ground |
| 6 | INC: inverting audio input 1 |
| 7 | INH: non-inverting audio input 1 |
| 8,9,10,11,12,13,14 | Not connected |
| 17,18 | Positive power supply |
| 19,20 | Negative power supply |
| 21 | External Vdr supply. Connect to Ground if not used. |
| 23,24,25,26 | Not connected |
| 27 | nAMPON input (active low) |
| 28 | DC Error output |
| 29 | Not connected |
| 30 | INH: non-inverting audio input 2 |
| 31 | INC: inverting audio input 2 |
| 33,34 | Loudspeaker 2 connection (cold) |
| 35,36 | Loudspeaker 2 connection (hot) |

### Switch S1

nAMPON control, use S1 to switch the amplifier ON or OFF.

### Audio input J10

| Pin | Function |
|---|---|
| 1 | INH: noninverting audio input 1 |
| 2 | INC: inverting audio input 1 |
| 3 | Not connected |
| 4 | Ground |

Connector type: 2x2 pin Microfit header type 43045-0412 (see www.molex.com), Matching cable part 43025-0400.

### Audio input J11

| Pin | Function |
|---|---|
| 1 | INH: noninverting audio input 2 |
| 2 | INC: inverting audio input 2 |
| 3 | Not connected |
| 4 | Ground |

Connector type: 2x2 pin Microfit header type 43045-0412 (see www.molex.com), Matching cable part 43025-0400.
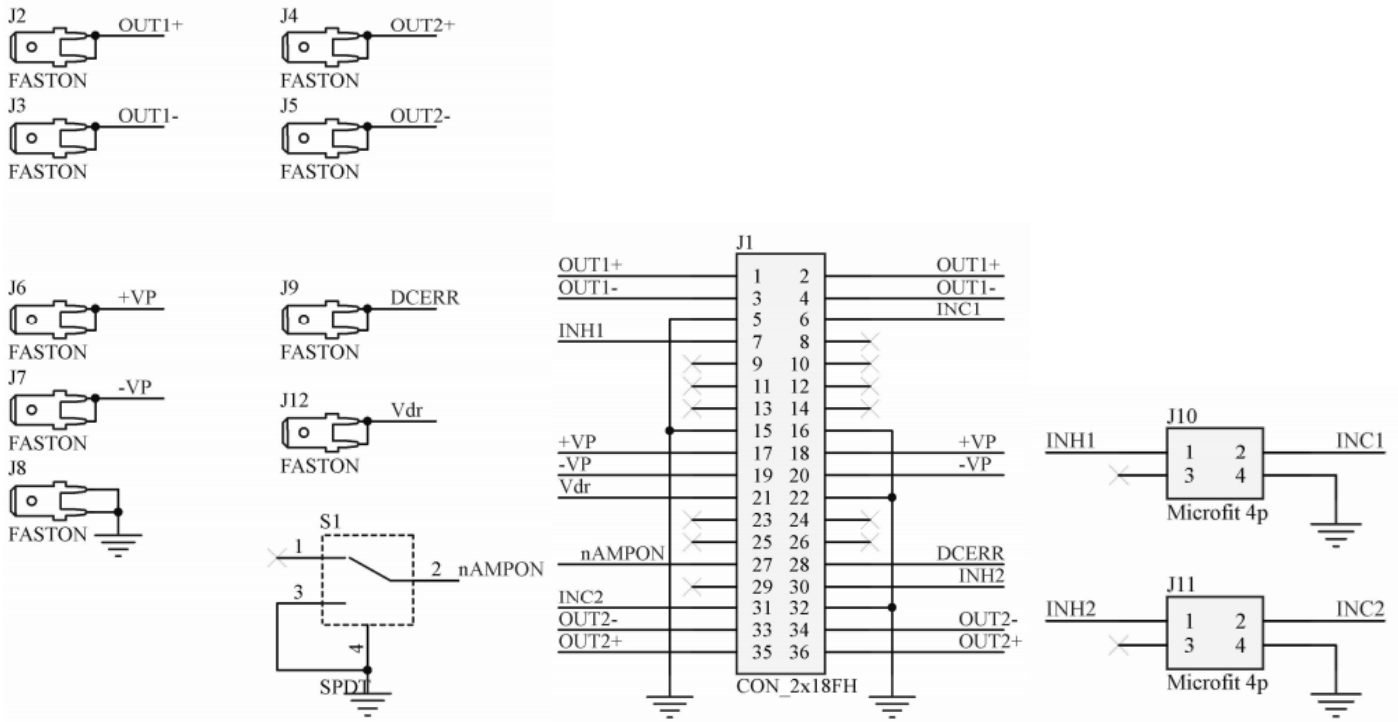
### Supply connector and speaker output

| Faston | Function |
|---|---|
| OUT2+ | Loudspeaker connection 2 (hot) |
| OUT2- | Loudspeaker connection 2 (cold) |
| OUT1+ | Loudspeaker connection 1 (hot) |
| OUT1- | Loudspeaker connection 1 (cold) |
| -VB | Negative power supply |
| +VB | Positive power supply |
| GND | Ground |
| DCERR | DC error output |

Faston Terminal, 6.35mm x 0.81m, Brass.

For further details regarding specific IOs and performances, please refer to the UcD102 OEM datasheet.

Please make sure you always download the latest datasheet from our website.

# 1 Schematic



# 2 Revisions

| Document revision | Module revision | Change log | Date |
|---|---|---|---|
| 01 | V0.0 | Release version | Sep '14 |
| 02 | V0.1 | Revised version | Mar '19 |

# 3 Disclaimer

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