

MIC584

Mezzanine Module



Overview

MIC584 is designed for the extension of functionalities of processor modules in 3U CompactPCI format.

Features

- Audio controller: audio codec, compatible with the High Definition Audio standard (for 2.1: AD1986A module version, for 3.1: CS4702 version)
- 2×USB 2.0 ports
- 1×parallel port (IEEE 1284)
- PS/2 interface
- 6×serial ports (6×16c550 UART)
- Operating temperature range: -40°C to $+85^{\circ}\text{C}$
- Vibration/Shock resistance: 5g/100g
- MTBF: No less than 800 000 hours
- Dimensions: shortened 3U: 88,3×128,4×36,5 mm

Technical Specifications

Audio controller

Audio codec, compatible with the High Definition Audio standard (for 2.1: AD1986A module version, for 3.1: CS4702 version)

- Linear input, $U_{bx}=1\text{ B (RMS)}$; routed to the board connector
- Linear output, output resistance $Z=10\text{ K}$; routed to the board connector
- Mic. input; $U_{bx}=1\text{ B (RMS)}$ at the amplification 0 dB; $U_{bx}=0.1\text{ V (RMS)}$ at the amplification 20 dB; routed to the front panel
- Audio output to headphones, output resistance $Z=65\text{ Ohm}$; routed to the front panel

2x USB 2.0 ports

- Compliant with USB 2.0 specification
- Routed to front panel

Parallel port (IEEE 1284)

- Standard Bi-directional SPP mode
- Extended EPP v.1.7 and v.1.9 mode
- High-speed ECP, IEEE 1284 mode
- Routed to the board connector (IDC2-26)

PS/2 interface

- Standard Mini-DIN for the connection of Y-cable (included in the delivery kit)
- Routed to the front panel

Six serial ports (6x 16C550 UART)

- COM1 – non-isolated RS-232 port; routed to the front panel (DSUB9M)
- COM2, COM3, COM4 – non-isolated RS-232 ports; routed to the connectors onboard (IDC2-10)
- COM5, COM6 – non-isolated RS-485 ports; routed to the connectors onboard (IDC2-10)

Serial ATA interface (2x channels), implemented on MIC584-01

- Simultaneous connection of up to 2 external SATA-drives using standard cables (included into the delivery kit)
- Support of 2x SATADOM modules for the revision of MIC584 2.2 version and higher
- 1x channel may be used for the connection of 1.8" SATA HDD or SSD, installed via carrier board
- Routed to the connectors onboard

Additional capabilities

- Module board has a shortened version, for increasing cooling capacity of processor modules in 3U CompactPCI format

Environmental

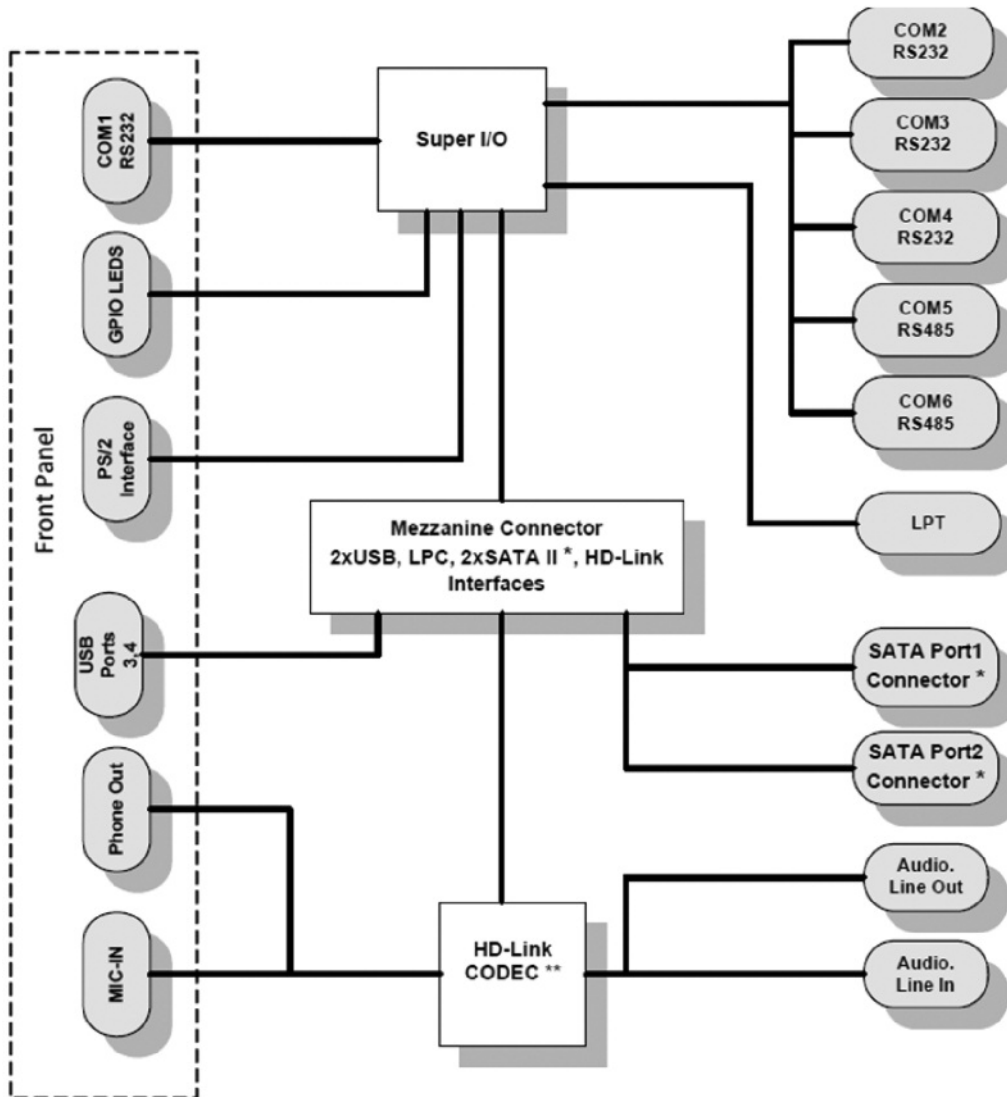
- Operating temperature range: industrial version: from -40°C to $+85^{\circ}\text{C}$, commercial version: from 0°C to $+70^{\circ}\text{C}$
- Resistance to cyclic damp heat when lacquer-coated: at the ambient temperature $+(55 \pm 2)^{\circ}\text{C}$, relative humidity (93±3)%

Mechanical

- Vibration/single shock resistance: 5g/100g
- MTBF: no less than 800 000 hours
- Weight: no more than 100 g
- Dimensions: shortened 3U: 88,3 × 128,4 × 36,5 mm



Board Layout



* SATA connectors are provided only for MIC584-01 version (Fastwel manufactures MIC584 in two versions: MIC584-01 and MIC584-02).
 ** Audio controller for module version 2.1: AD1986A, for version 3.1: CS4702.

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Ordering Information

MIC584 Configuration

MIC584 - 01 - C \Options

Configurations

01	SATA (XP8...XP10) – Yes
02	SATA (XP8...XP10) – No

Temperature Range

I	Industrial Range, -40...+85°C
C	Commercial Range, 0...+70°C

Options

\Coated	Conformal coating
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Delivery checklist

MIC584 delivery checklist contains:

1. MIC584 – 1 pcs.
2. PS/2 Y-cable – 1 pcs.
3. Standard Serial ATA cable – 2 pcs. (for MIC584-01)
4. HDD SATA supply cable – 1 pcs. (for MIC584-01)
5. Jumpers for XP3, XP4 contacts – 2 pcs.
6. Module's mounting kit
7. Packaging

Kit for installation of ACS20044 hard drive needs to be purchased separately.

Note:

Retain all original packaging at least until the warranty period is over.
You may need it for shipments or for storage of the product.

Corporate Offices

FASTWEL GROUP Co. Ltd

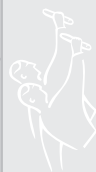
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Ver. 1.12.2015
Product specifications are subject to change without notice



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