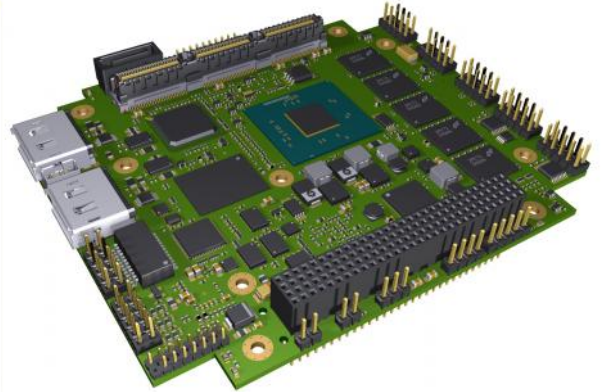


PCI/104-Express module based on high-performance Intel® Atom™ E3800 Series processors

## Features

- Intel® Atom™ SoC E3800 Series
- Supports up to 4 GB soldered DDR3L-1333 SDRAM, ECC
- On-board soldered eMMC Flash memory up to 64GB
- Video DDI and VGA interfaces
- Gigabit Ethernet port
- 4x USB 2.0
- 4x PCIe x1 Gen2 lanes
- 1x USB 3.0
- 2x SATA
- 5V only supplies
- Industrial grade operating temperature -40°C to +85°C



## Formfactor

- PCI/104 Express 90.17x95.89 mm

## CPU

- Intel® Atom™ E3845 (4x 1.91 GHz, 2MB L2 cache, 10 W)
- Intel® Atom™ E3827 (2x 1.75 GHz, 1MB L2 cache, 8 W)

## Main Memory

- Up to 4GB Soldered DDR3L-1333 ECC

## Graphics Controller

- Intel® HD Graphics (Gen7)

## Ethernet Controller

- PCIe Intel® I210-IT

## Hard Disk

- 2x SATA 3Gb/s

## Video

- DDI1: DP++, DDI2: DP++
- VGA

## Flash Onboard

- Up to 64GB soldered eMMC
- MicroSD card slot (SDXC)

## Audio

- Low-power, HD Audio Codec with Headphone Amp

## I/O Interfaces

- 32x PCIe To PCI Bridge
- 4x PCIe x1 Gen2 lanes
- 1x USB 3.0
- 4x USB 2.0
- 2x UART interface (TX/RX only)
- SPI
- SMB
- I<sup>2</sup>C bus
- Additional 8x GPIO

## Power Management

- Rohm BD9596 Power Management IC

## Power Supply

- 5.0V Only Single Supply Power

## BIOS

- Intel® FSP; coreboot®

## Operating System

- Windows® 7/8 , WE8S, WES7, WEC7, Linux, VxWorks

## Temperature

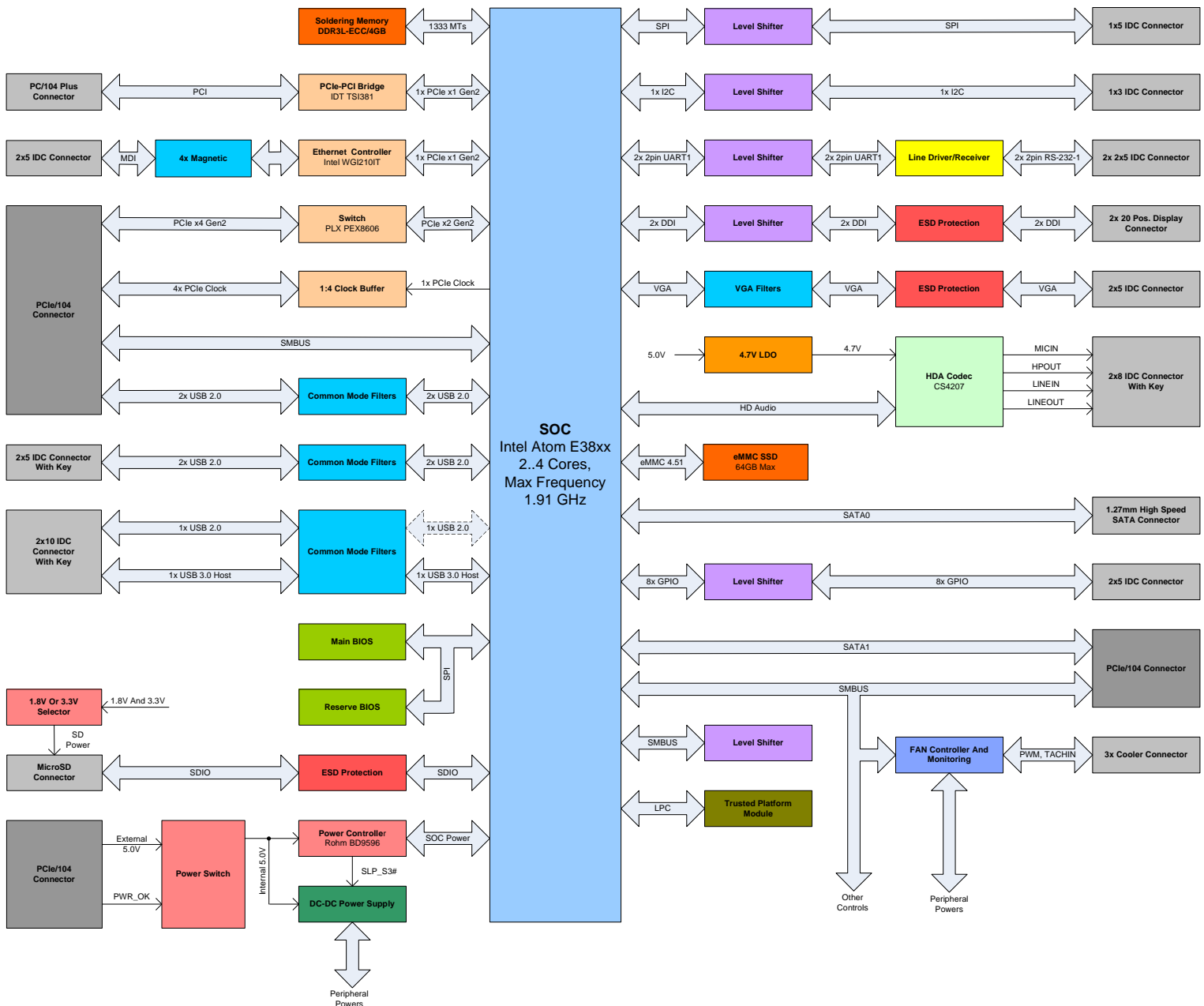
- Industrial temperature: -40°C to +85°C operating

## Humidity

- Operating: 10 to 90% r. H. non cond. / Storage 5 to 95% r. H. non cond.

# TTPC-E38XX SBC

PCI/104-Express module based on high-performance Intel® Atom™ E3800 Series processors



TTPC-E38XX SBC Block Diagram