SBC-4220

Features

- Supports Intel® Xeon® E3-1200v2/CoreTM i3 processors in LGA1155 package
- Delivers up to 16GB maximum DDR3 1333/1600 ECC SDRAM on two DIMM sockets
- Supports multiple display by DVI-I (DVID+VGA) and HDMI supports iAMT 8.0 on Intel® Xeon® E3- 1200v2 series processors
- High speed dual Gigabit Ethernet based on PCI Express x1, high bandwidth I/O interface
- Rich I/O connections such as FDD, two Gigabit Ethernet, serial ports, parallel port, USB 2.0/3.0
- On-board two SATA II and two SATA III ports support RAID 0,1,5,10 ROBO

Overview

SBC-4220 is based on the Intel® C216 chipset and workstation processor sku. Built with flexible PCI Express Expansion, it’s suitable for medical, Factory Automation, and Digital Signage applications.

Specification

Processor

Intel® Xeon® E3-1200v2 series and CoreTM i3 processor in LGA1155 package

Chipset

Intel® C216 PCH

BIOS

Phoenix UEFI BIOS

Memory

Supports up to 16GB DDR3 1333/1600 SDRAM on two 240-pin ECC DIMM sockets.

Storage Devices

Supports 2x SATA III drives and 4x SATA II drives (Dual SATA II ports via Backplane) - RAID 0,1,5 and 10

Watchdog Timer

Programmable via S/W from 0.5 sec. to 254.5 sec.

Expansion Interface

From CPU (Xeon/Core i3): 1x PCI Express x16 or 2x PCI Express x8 or 1x PCI Express x8 + 2x PCI Express x4 by jumper setting

From PCH: 1x PCI Express x4 or 4x PCI Express x1 by different bios support

4x PCI devices at 32 bit 33 MHz

Super I/O

ITE IT8728F

Audio

Intel® BD82C216 PCH built-in High Definition Audio up to 192-kHz 32-bit Realtek ALC886-GR HDA codec, 5.1 channels

Ethernet

Intel® 82579LM+82574L gigabit Ethernet controller

Serial Port

1x RS232 and 1x selectable RS232/422/485 on board

USB

10x USB 2.0 ports (four ports through backplane)

480Mbps bus capable of high-speed/full-speed/low-speed data ranges

4x USB 3.0 ports pin board (two ports on board, two ports on bracket)

5Gbps bus capable of high-speed/full-speed/low-speed data ranges

Keyboard & Mouse

2x USB 3.0 ports on bracket dedicated to keyboard & mouse

GPIO

On board programmable 8-bit Digital I/Os

Others

1x parallel port

Graphic Controller

Intel® Xeon® and CoreTM i3 processors integrated graphics engine PROVIDES improved 3D multimedia capabilities including Microsoft DirectX 11, Shader Model 4.0, MPEG-2 and OpenGL 3.1

Display Interface

CRT on bracket: Resolution up to 2048x1536 @75Hz

DVI-D: up to 1920x1200 @60Hz

HDMI: up to 1920x1200 @60Hz (CRT+DVI-D on bracket by DVI-I port)

Dimension

338.5(L) x 126.39(W) mm; 13.33"(L) x 4.98"(W)

PCB: 12 layers

Power Supply

Typical: +12V@6.96A; +5V@0.32A

Supports ATX mode

Environment

Operation Temperature: 0~60 °C (For 80W CPU limitations)

Storage Temperature: -20~80 °C

Relative Humidity: 5~90%, non-condensing

MTBF

Over 100,000 hours at 40°C

Packing List

Standard

SATA II cable

SATA III cable (Black)

Cable kit for FDD+PRN with bracket

Dual head COM port cable with bracket

DVI-D + VGA cable

PICMG SBC Handling and Installation Notice

Installation CD

Optional

PS/2 Keyboard / Mouse Cable with bracket

USB port cable with bracket

USB 3.0 cable with bracket

PA-M1AU Multiple Media kit

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