



Features



- Support Intel® 6C~12C Xeon® processors with LGA 2011 package
- Delivers up to 256GB DDR4 ECC registered memory assured the computer reliability and benefited the data swapping process
- Adopt ASPEDD AST1400 graphic engine offers solid 2D performance by VGA port
- High speed Gigabit Ethernet based on PCI express x 1 interface
- Flexible PCI Express configuration on backplane up to total 36 lanes

Overview

SBC-4226 is based on Intel® C612 chipset and Dual Xeon® processors. A server grade SHB, built with high computing power and PCI express Expansion support in mind. This SHB is suitable for Military Medical, Industrial/Factory Automation, Networking, Medical and Digital Signage applications.

Specification

Processor
Intel® 6C~12C Xeon® E5-2600Lv3 series processor (50~75W) with 15~30MB Cache in LGA2011 package (support up to 75W per CPU)
Intel® QPI transfer rates: 6.4, 8 and 9.6GT/s (depends on CPU sku)
DMI x4 Link: 5 GT/s
Supports Intel® Hyper-Threading, Virtualization Technology (VT-x), and QuickPath Technology

Chipset
Intel® C612 PCH

BIOS
Phoenix UEFI BIOS

Memory
Supports up to 256GB DDR4 2133/1866 SDRAM on Eight 288-pin DIMM sockets
Supports Register

Storage Devices
4x SATAIII drives (Dual ports via Backplane)
RAID 0, 1

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

Hardware Monitoring
System monitor (Voltage, Fan Speed and Temperature)

Expansion Interface
From per CPU: 1x PCI Express x16 or 2x PCI Express x8 or 1x PCI Express x8 + 2x PCI Express x4 by different bios support (Gen3 up to 8.0 GT/s)
From PCH: 1x PCI Express x4 or 4x PCI Express x1 by different bios support (Gen 3 up to 8.0 GT/s)

Super I/O
ITE IT8772E

Audio
N/A

Ethernet
On-board Intel® WGI217LM + WGI210AT gigabit ethernet controller
Dual 10BASE-T / 100BASE-TX / 1000BASE-T Ethernet
PCI Express x1 interface based on gigabit ethernet
Single RJ-45 connector with two LED indicators for WGI217LM on bracket, the other port route to gold finger section C on BP for WGI210AT

Serial Port
2x Tx/Rx signal route to gold finger section C on BP (4 pins)

USB
4x USB 2.0 ports (through backplane)
480Mb/s bus capable of high-speed/full-speed/low-speed data ranges
2x USB 3.0 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
N/A

Graphic Controller
ASPEED AST1400

Display Interface
CRT on bracket: Resolution up to 1920x1200@60Hz

Dimension
338.5(L) x 126.39(W) mm; 13.33"(L) x 4.98"(W)
PCB: 8 layers

Power Supply
Typical: +12V +5V
Supports ATX mode

Environment
Operation Temperature: 0~55 °C (for 75W CPU limitation)
Storage Temperature: -20~80 °C
Relative Humidity: 5~90%, non-condensing

MTBF
Over 100,000 hours at 40°C

Packing List
Standard
SATA III cable (Black)
PICMG SBC Handling and Installation Notice
Installation CD

Optional
All in one CPU Cooler