SBC-4227

Overview

SBC-4227 is based on Intel® C236 chipset and workstation processors. Built with Flexible PCI Expansion the SBC-4227 is suitable for Medical, Industrial/Factory Automation, and Digital Signage applications.

Specification

Processor
Intel® Xeon® E3-1200v5 series / Core™ i3 processors up to 3.6 GHz (35~80W) with (8MB) Cache in LGA-1151 package

Chipset
Intel® C236 PCH

BIOS
AMI uEFI BIOS (SPI ROM)

Memory
Supports up to 32GB DDR4 2133/1866 SDRAM on two 288-pin DIMM sockets

Storage Devices
Support 6x SATA III drives (Dual ports via Backplane)

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 (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 IT8528E

Audio
Intel® PCH built-in High Definition Audio up to 192-kHz 32-bit

Ethernet
Intel® WGI219LM + WGI210AT gigabit ethernet controller

Serial Port
2x RS232 ports
2x RS232/422/485 selectable

USB
2x USB 2.0 ports (through backplane)

All systems are fully integrated and are configurable to meet your application requirements

Keyboard & Mouse
2x USB 3.0 ports on bracket dedicated to keyboard & mouse (on bracket)
1x 10 pin box header for external PS/2 keyboard/mouse

GPIO
On board programmable 8-bit Digital I/Os

Graphic Controller
Intel® Xeon and Core™ i3 processors integrated graphics engine

Display Interface
Support independent triple display by
CRT on bracket: Resolution up to 1920x1200 @ 60Hz
DVI-D on bracket: up to 1920x1200 @ 60Hz
(HDMI on bracket by DVI-I port)

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

Power Supply
Typical: +12V, +5V

Environment
Operation Temperature: 0~60 °C
Storage Temperature: -20~80 °C
Relative Humidity: 5~90%, non-condensing

MTBF
Over 100,000 hours at 40°C

Packaging List
Standard
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

Features
• Supports Intel® 6th Skylake Xeon® /Core™ i3 processors in LGA 1151 package
• Delivers up to 32GB maximum DDR4 2133ECC DIMM on two sockets
• Supports multiple display by DVI-I(DVID+VGA) and HDMI
• High speed dual Gigabit Ethernet based on PCI express x 1, high bandwidth I/O interface
• Rich I/O connections such as four serials ports, USB 3.0/2.0, SATA III ports

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