SBC-4225-Q87

Overview

SBC-4225-Q87 is based on Intel® Q87 chipset and Core™ i7/i5 sku processor. It's suitable for Medical, Factory Automation, and Digital Signage applications.

Specification

Processor
Intel® Core™ i5/i7 processors up to 3.1 GHz (35~65W) with (4~8MB) Cache in LGA-1150 package - DMI x4 Link: 5.0GT/s - Support Intel® Turbo Boost, Hyper-Threading, Virtualization, Thermal Monitoring, Trusted Execution and SpeedStep Technology (depends on CPU sku)

Chipset
Intel® Q87 PCH

BIOS
Phoenix UEFI BIOS

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

Storage Devices
Support 5x SATA III drives (Dual ports via Backplane)
RAID Options 0, 1, 5 and 10
1x FDD channel

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 CPU (Core i5/i7): 1x PCI Express x16 (Gen3 up to 8.0 GT/s) - From PCH: 1x PCI Express x4 or 4x PCI Express x1 by different bios support (Gen2 up to 5.0 GT/s) - 4x PCI devices at 32 bit 33 MHz

Super I/O
ITE IT8728F

Audio
Intel® BD82Q87 PCH built-in High Definition Audio up to 192-kHz 32-bit - Realtek ALC886-GR HDA codec, 5.1 channels

Ethernet
Intel® WGI217LM + WGI210AT gigabit Ethernet controller - Dual 10BASE-T / 100BASE-TX / 1000BASE-T Ethernet - PCI Express x1 interface based on gigabit Ethernet - Dual RJ-45 connector with two LED indicators

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

USB
8x USB 2.0 ports (four ports through backplane)
480Mbps bus capable of high-speed/full-speed/low-speed data ranges
6x USB 3.0 ports on board (four ports on board, dual 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® CoreTM i5/i7 processors integrated graphics engine
Provides improved 3D multimedia capabilities including Microsoft DirectX 11.1, Shader Model 4.0, MPEG-2 and OpenGL 3.2

Display Interface
Support independent triple display by CRT on bracket: Resolution up to 1920x1200 @ 60Hz
DVI-D on bracket: up to 1920x1200 @ 60Hz
HDMI: up to 4096x2160 @ 24Hz (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: 8 layers

Power Supply
Typical: +12V@5.29A; +5V@4.94A
Supports ATX mode

Environment
Operation Temperature: 0~60 °C (with highest performance on 50 °C)
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)
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

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

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