

# FES 5312

## Fanless Embedded System 4-Core/2-Core i7/i5/i3 Processor Support PCI Ex16 Expansion Slot



### » Specifications

#### Material:

Rugged aluminum and SECC steel enclosure

#### Embedded Board:

CPU Type:

4-core 8 thread i7 2.1GHz 6MB Cache processor/

2-core 4 thread i5 2.5GHz 3MB Cache processor/

2-core 4 thread i3 2.2GHz 3MB Cache processor

Chipset: QM67 south bridge chipset

Memory: DDR-III SODIMM x 2, Max. 16 GB

Watchdog time: programmable WDT from 1 to 255 seconds

#### Graphic:

Support AVC/H.264, VC1/ WMV9, MPEG2 HW engine

Support DirectX video acceleration (DXVA) engine

#### Video Input:

Dual Video input: VGA & DVI for independent video outputs  
option for DVI + LVDS or VGA + LVDS dual independent display

#### Expansion Slot:

1 PCI Ex16 expansion slot, 1 optional mini PCI-E slot

Max. add-on card dimension: 7.08"(L) x 4.2"(H)

#### Drive bay:

1 x internal hot-swappable 2.5 inch SATA hard drive or SSD

1 x external hot-swappable 2.5 inch SATA hard drives

HDD with optional anti-vibration protection

Support 1 x eSATA for external SATA device & 1 x CF socket

#### Front Panel Control:

LED indicator for power and hard drive

Power on/off and system reset buttons

#### I/O Port (Standard):

5 x COM port, 2 for RS-232/422/485, 3 for RS-232

6 x USB2.0

2 x Ethernet ports, 100/1000Base-TX

3 x Audio port: Line-in, Line-out, Mic-in

2 x PS/2 port for Keyboard and mouse

1 x DB-44 dual channel 24 bit LVDS (option)

### » Features

- » Steel and aluminum rugged micro box
- » Fanless design embedded computer
- » 4-core or 2-core i7 / i5/ i3 Processor
- » Extended working temperature from -30°C to 60°C
- » Dual display port (DVI + VGA)
- » Dual LAN and 5 COM port
- » 1 PCI Ex16 expansion slot, option for 1 Mini PCI-E slot
- » 1 internal 2.5" SATA HDD & 1 external 2.5 SATA HDD
- » 90 ~ 264 VAC power input with RTC alarm power on

#### Active Management Technology

Support iAMT 7.0

Remote troubleshooting and recovery

#### Power Supply:

AC 90 ~ 264V input with RTC alarm power on function

DC 12V / 8.5A 102W power input (Option)

Power adapter: AC to DC 12V 60/100W or 24V 60W (Option)

#### System Support:

Window XP Professional / Embedded, Windows 7, Linux

#### Mounting:

Integrated mounting bracket for Desk or Wall mount

Optional support vertical

#### Weight:

17.6lbs

#### Dimension:

12.99"(W) x 6.61"(H) x 8.66"(D)

#### Certification:

CE / FCC Class A

#### Environmental:

Temperature

Operation: -30°C ~ 55°C (i7 CPU)/ -30°C ~ 60°C (i5/i3 CPU)

Storage: -40°C to 80 °C

Humidity: 10~90%, non-condensing

Vibration: 5~500Hz 2G RMS random vibration, 1hr/axis (CF/SSD) or 5~500Hz 1G RMS random vibration, 1hr/axis (HDD)

Shock: trucks and semitrailers 20g

### » Ordering Guide

#### FES 5312:

Fanless embedded system, 4-core or 2-core i7/i5/i3 CPU, 2 x up to 16GB DDR-III memory, 1 x internal 2.5" SATA HDD, 1 x external 2.5" SATA HDD, 1 x PCI Ex16 expansion slots, dual display (VGA + DVI). Desk or Wall mount ready.

**ACNODES**

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