

# SYS-4U4020-4H01

**Compact Short-depth 4th Gen Intel® Core™ i7/i5/i3 PICMIC1.3 System with 11 Expansion Slots, Front USB 3.0**



## Features

- Intel® H81 Platform
  - Supports 4th Gen Intel® Core™ i7/i5/i3 processor
  - Dual Channel (Non-ECC) DDR3 1333/1600 up to 16 GB
- Expansion Capability
  - 8 PCI, 2 PCIe1, 1 PCIe16
  - Two 3.5", One 2.5" HDD Bay and One Slim Optical Drive
- Thoughtful and Management Design
  - Intelligent remote manageability
  - Compact with only 350mm depth
  - Front-accessible system fan
  - Smart fan speed control for system fans
  - 300W 80plus power supply

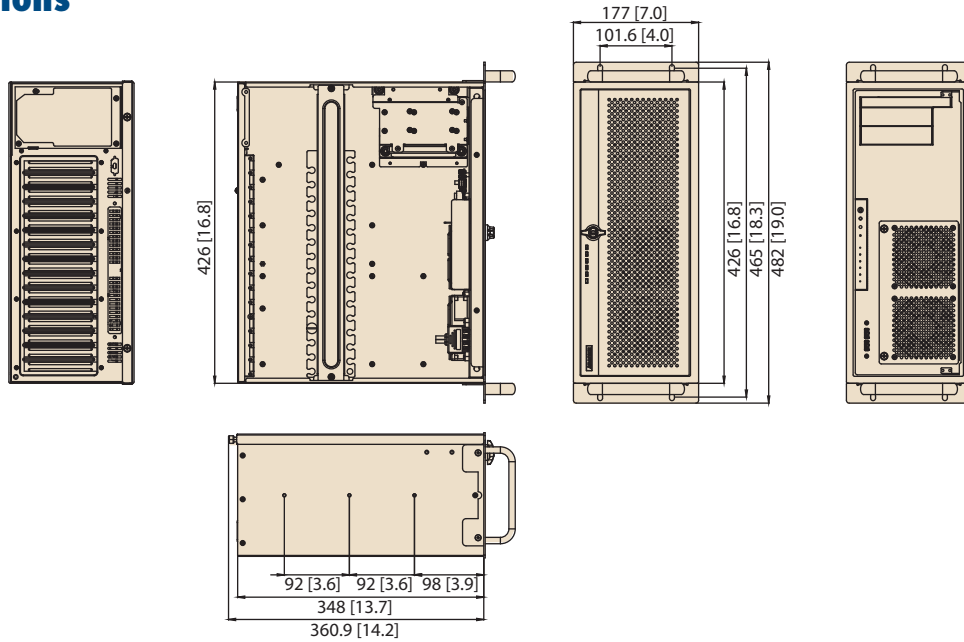


## Specifications

|                          |                          |  |           |          |           |         |           |         |         |         |         |  |
|--------------------------|--------------------------|--|-----------|----------|-----------|---------|-----------|---------|---------|---------|---------|--|
| Processor System         | CPU                      | i7-4770S   | i7-4770TE | i5-4570S | i5-4570TE | i3-4330 | i3-4330TE | G3420   | G3220TE | G1820   | G1820TE |  |
|                          | Base Frequency           | 3.1GHz   | 2.3GHz    | 2.9GHz   | 2.7GHz    | 3.5GHz  | 2.4GHz    | 3.2 GHz | 2.3 GHz | 2.7 GHz | 2.2 GHz |  |
|                          | L3 Cache                 | 8MB  | 8MB       | 6MB      | 4MB       | 4MB     | 4MB       | 3MB     | 3MB     | 2MB     | 2MB     |  |
|                          | SKU/Chipset              | Intel H81  |           |          |           |         |           |         |         |         |         |  |
| Memory                   | BIOS                     | AMI 128Mbit SPI Flash  |           |          |           |         |           |         |         |         |         |  |
|                          | Technology               | Dual channel (Non-ECC) DDR3 1333/1600  |           |          |           |         |           |         |         |         |         |  |
|                          | Max. Cap.                | 16 GB (8 GB per DIMM)  |           |          |           |         |           |         |         |         |         |  |
|                          | Socket                   | DDR3 204-pin SO-DIMM x2  |           |          |           |         |           |         |         |         |         |  |
| Graphics                 | Controller               | Chipset integrated Intel GT2 4600 or GT1 HD graphics (Depends on CPU support)  |           |          |           |         |           |         |         |         |         |  |
|                          | VRAM                     | Shared system memory is subject to OS  |           |          |           |         |           |         |         |         |         |  |
|                          | CRT                      | Supports resolution up to 1920 x 1200 pixel at 60Hz  |           |          |           |         |           |         |         |         |         |  |
|                          | DVI-D                    | Supports resolution up to 1920 x 1200 pixel at 60Hz  |           |          |           |         |           |         |         |         |         |  |
| Expansion Slot           | Dual Independent Display | VGA+DVI-D  |           |          |           |         |           |         |         |         |         |  |
|                          | PCI Express x 16         | 1  |           |          |           |         |           |         |         |         |         |  |
|                          | PCI Express x 1          | 2  |           |          |           |         |           |         |         |         |         |  |
| Ethernet                 | PCI                      | 8  |           |          |           |         |           |         |         |         |         |  |
|                          | Interface                | 10/100/1000 Mbps   |           |          |           |         |           |         |         |         |         |  |
|                          | Controller               | LAN 1: Intel I217V<br>LAN 2: Intel I211AT  |           |          |           |         |           |         |         |         |         |  |
| Storage                  | Front-accessible         | Internal   |           |          |           |         |           |         |         |         |         |  |
|                          | Slim Optical Drive Bay   | 1  |           |          |           |         |           |         |         |         |         |  |
|                          | 3.5" Drive Bay           | 2  |           |          |           |         |           |         |         |         |         |  |
| Front I/O Interface      | 2.5" Drive Bay           | -  |           |          |           |         |           |         |         |         |         |  |
|                          | USB                      | 2 (3.0)  |           |          |           |         |           |         |         |         |         |  |
| Rear I/O Interface       | USB 2.0                  | 1  |           |          |           |         |           |         |         |         |         |  |
|                          | Ethernet                 | 2  |           |          |           |         |           |         |         |         |         |  |
|                          | VGA                      | 1  |           |          |           |         |           |         |         |         |         |  |
|                          | PS/2                     | 1 (PS/2 Y cable supports 1 x keyboard and 1 x mouse)   |           |          |           |         |           |         |         |         |         |  |
| Watchdog Timer           | Output                   | System reset   |           |          |           |         |           |         |         |         |         |  |
|                          | Interval                 | Programmable 1-255 sec   |           |          |           |         |           |         |         |         |         |  |
| Power Supply             | Output Rating            | 300W   |           |          |           |         |           |         |         |         |         |  |
|                          | Input Voltage            | AC 100 ~ 240 V (full range)  |           |          |           |         |           |         |         |         |         |  |
| Cooling                  | Fan                      | 2 (9 cm / 53 CFM)  |           |          |           |         |           |         |         |         |         |  |
|                          | Air Filter               | Yes  |           |          |           |         |           |         |         |         |         |  |
| Miscellaneous            | LED Indicators           | Power, HDD, temperature, fan, LAN1, and LAN2   |           |          |           |         |           |         |         |         |         |  |
|                          | Remote Management        | Remote monitoring: temperature, fan speed, HD status, voltage<br>Active control: schedule on/off, remote KVM<br>Complete protection: system recovery (Acronis), system protection (McAfee) |           |          |           |         |           |         |         |         |         |  |
|                          | Rear Panel               | One 9-pin D-Sub opening  |           |          |           |         |           |         |         |         |         |  |
| Environment              | Operating                | Non-Operating  |           |          |           |         |           |         |         |         |         |  |
|                          | Temperature              | 0 ~ 40° C (32 ~ 104° F)<br>-40 ~ 70° C (-40 ~ 156° F)  |           |          |           |         |           |         |         |         |         |  |
|                          | Humidity                 | 10 ~ 95% @ 40° C, non-condensing<br>10 ~ 95% @ 60° C, non-condensing   |           |          |           |         |           |         |         |         |         |  |
|                          | Vibration (5 ~ 500 Hz)   | 1 Grms<br>2 G  |           |          |           |         |           |         |         |         |         |  |
| Physical Characteristics | Shock                    | 10 G (with 11 ms duration, half sine wave)   |           |          |           |         |           |         |         |         |         |  |
|                          | Dimensions (W x H x D)   | 482 x 177 x 348 mm (19" x 7.0" x 13.7")  |           |          |           |         |           |         |         |         |         |  |
|                          | Weight                   | 8.5 kg (18.7 lb)   |           |          |           |         |           |         |         |         |         |  |

## Dimensions

Unit: mm [inch]



## Ordering Information

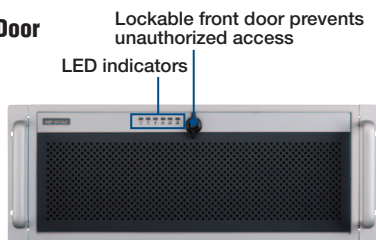
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## System Content

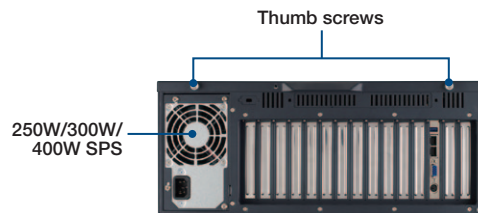
| Item         | P/N                       |
|--------------|---------------------------|
| Chassis      | ACP-4020BP-00XE           |
| Motherboard  | PCE-3028G2-00A1E          |
| Backplanes   | PCE-3B12-08A1E            |
| Power Supply | PS8-300ATX-ZBE (ATX, PFC) |

## Front view

### Closed Front Door



## Rear view



### Open Front Door

