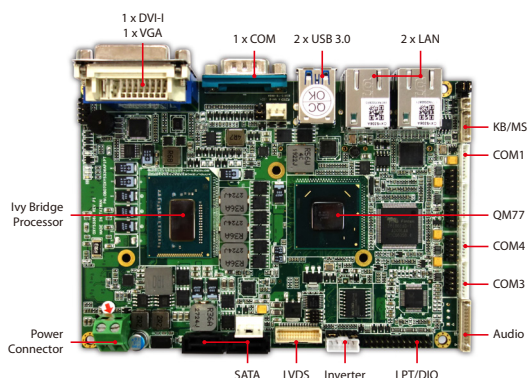
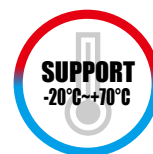


# OXY5335A

PERFECTRON

Intel® Ivy Bridge QM77 3.5" SBC, Wide Temp. -20 to 70°C (-40 to 85°C optional)



## Main Features

- Supports Intel® Ivy Bridge BGA CPU
- Multi display: VGA, DVI-I, LVDS
- Supports dual channel 24-bit LVDS
- 1 x Mini PCIe
- 1 x mSATA
- 4 x COM ports
- 10 x USB ports
- Wide operating temp. -20 to 70°C (-40 to 85°C optional)
- Support iAMT 8.0, RAID 0, 1, 5, 10

## ► Specifications

### System

|                |                                                                                                                                                                                                                 |
|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CPU Type       | Intel® Ivy Bridge 22nm Core™ i7/i5/i3, BGA type<br>Core™ i7-3517UE (2C x 1.7 GHz), 4M L2 cache (17W)<br>Core™ i5-3610ME (2C x 2.7 GHz), 3M L2 cache (35W)<br>Core™ i3-3217UE (2C x 1.66 GHz), 3M L2 cache (17W) |
| Chipset        | Intel® QM77                                                                                                                                                                                                     |
| Memory Type    | 1 x 204-pin SO-DIMM DDR3 1333/1600 MHz up to 8 GB                                                                                                                                                               |
| BIOS           | AMI® UEFI BIOS                                                                                                                                                                                                  |
| Super I/O      | Fintek F81866AD-I                                                                                                                                                                                               |
| Watchdog       | 1-255 sec. or 1-255 min. software programmable, can generate system reset                                                                                                                                       |
| Expansion Slot | 1 x mPCIe<br>1 x mSATA                                                                                                                                                                                          |

### Display

|              |                                                    |
|--------------|----------------------------------------------------|
| Chipset      | Intel® HD Graphics 4000 Integrated Graphics Engine |
| VGA          | Yes (Max. resolution 2048 x 1536)                  |
| LVDS         | Dual channel 24-bit LVDS                           |
| Display Type | VGA, LVDS, DVI-I                                   |

### Audio

|       |                                            |
|-------|--------------------------------------------|
| Codec | Realtek ALC887 High Definition Audio Codec |
|-------|--------------------------------------------|

### Ethernet

|               |                             |
|---------------|-----------------------------|
| Chipset       | Intel® 82579LM & 82574L GbE |
| WOL           | Yes                         |
| Boot from LAN | Yes for PXE                 |

### Rear I/O

|          |                   |
|----------|-------------------|
| VGA      | 1                 |
| DVI-I    | 1                 |
| Ethernet | 2 x RJ45          |
| COM      | 1 x RS232/422/485 |
| USB      | 2 x USB 3.0       |

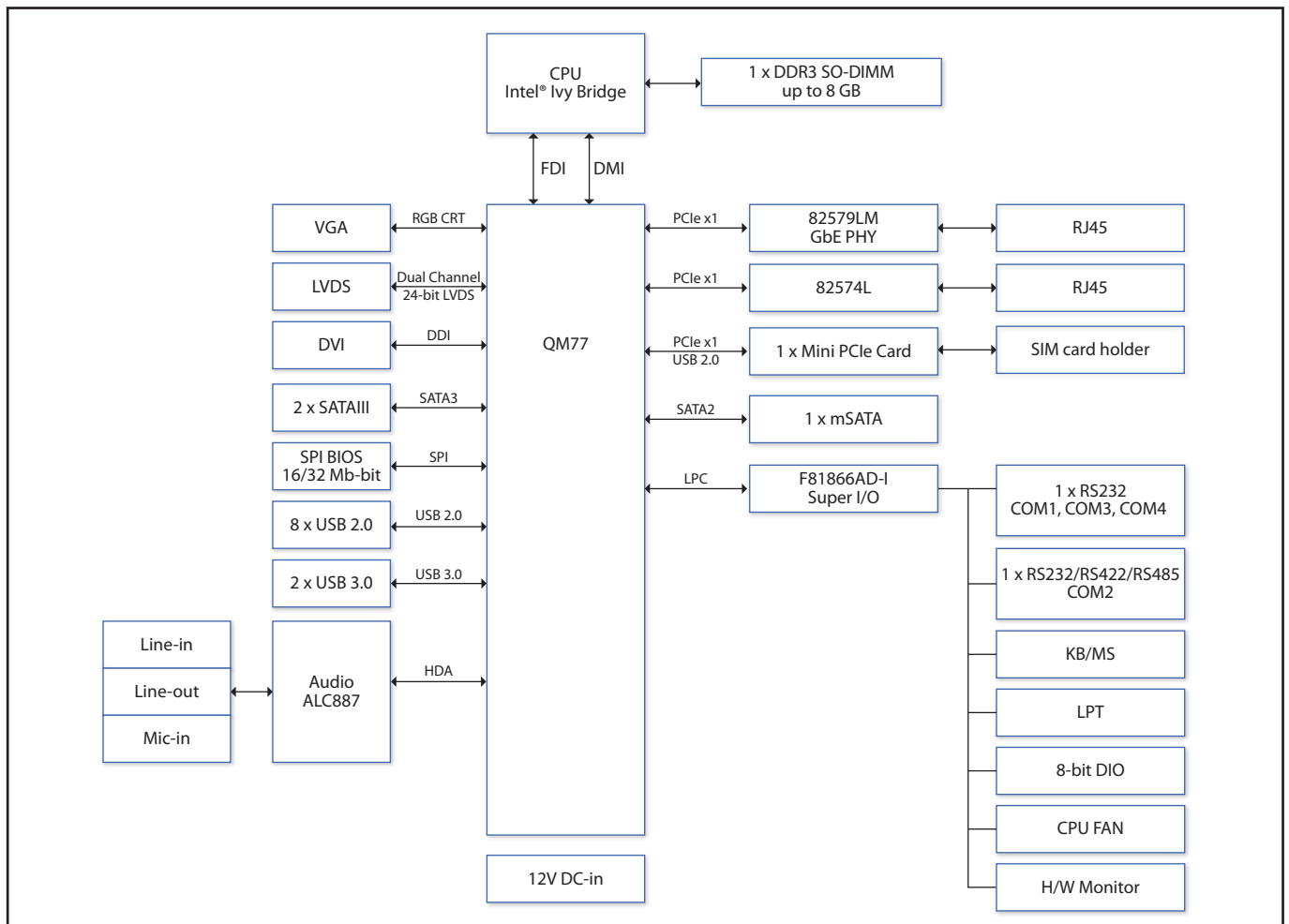
### Internal I/O

|                 |                                                                |
|-----------------|----------------------------------------------------------------|
| SATA            | 2 x SATAIII (6 Gb/s)                                           |
| USB             | 8 x USB 2.0 ports by pin header                                |
| COM             | 3 x COM ports<br>COM 1, 3, 4 ports support RS232 by pin header |
| Audio           | Mic-in, Line-in, Line-out                                      |
| FAN             | 1 x CPU fan                                                    |
| LVDS            | 30-pin connector                                               |
| PS/2            | 1 x 8-pin header                                               |
| Parallel Port   | 2 x 13-pin header                                              |
| DIO             | 8-bit (4 in/4 out)                                             |
| SIM card holder | 1                                                              |

### Mechanical and Environment

|                   |                                                           |
|-------------------|-----------------------------------------------------------|
| Form Factor       | 3.5" SBC                                                  |
| Power Type        | 12V DC-in, 4-pin ATX power connector, AT/ATX mode support |
| Dimension         | 146 x 102 mm (5.7" x 4")                                  |
| Operating Temp.   | -20 to 70°C                                               |
| Storage Temp.     | -40 to 85°C                                               |
| Relative Humidity | 10% to 90%, non-condensing                                |

## ► Block Diagram



## ► Packing List

- OXY5335A 3.5" SBC
- CD (Driver + user's manual)

## ► Optional Accessories

### Cable Kit

Cable kit for OXY5335A

### Thermal Kit

Active heatsink(up to 60°C)

Copper heat spreader

Passive heatsink(up to 75°C)

## ► Ordering Information

### Modules

| Model Number       | Description                                                                                                                                                        |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| OXY5335A-ET-3517UE | 3.5" SBC Intel® Ivy Bridge Processor (Mobile) BGA CPU, Multi-Display by DVI-I, VGA, LVDS, Dual Intel® GbE LAN, +12V DC-in (Core™ i7-3517UE) (-20 to 70°C)          |
| OXY5335A-ET-3217UE | 3.5" SBC Intel® Ivy Bridge Processor (Mobile) BGA CPU, Multi-Display by DVI-I, VGA, LVDS, Dual Intel® GbE LAN, +12V DC-in(Core™ i3-3217UE ) (-20 to 70°C)          |
| OXY5335A-UT-3517UE | 3.5" SBC Intel® Ivy Bridge Processor (Mobile) BGA CPU, Multi-Display by DVI-I, VGA, LVDS, Dual Intel® GbE LAN, +12V DC-in (Core™ i7-3517UE) (-40 to 85°C optional) |
| OXY5335A-UT-3217UE | 3.5" SBC Intel® Ivy Bridge Processor (Mobile) BGA CPU, Multi-Display by DVI-I, VGA, LVDS, Dual Intel® GbE LAN, +12V DC-in (Core™ i3-3217UE) (-40 to 85°C optional) |