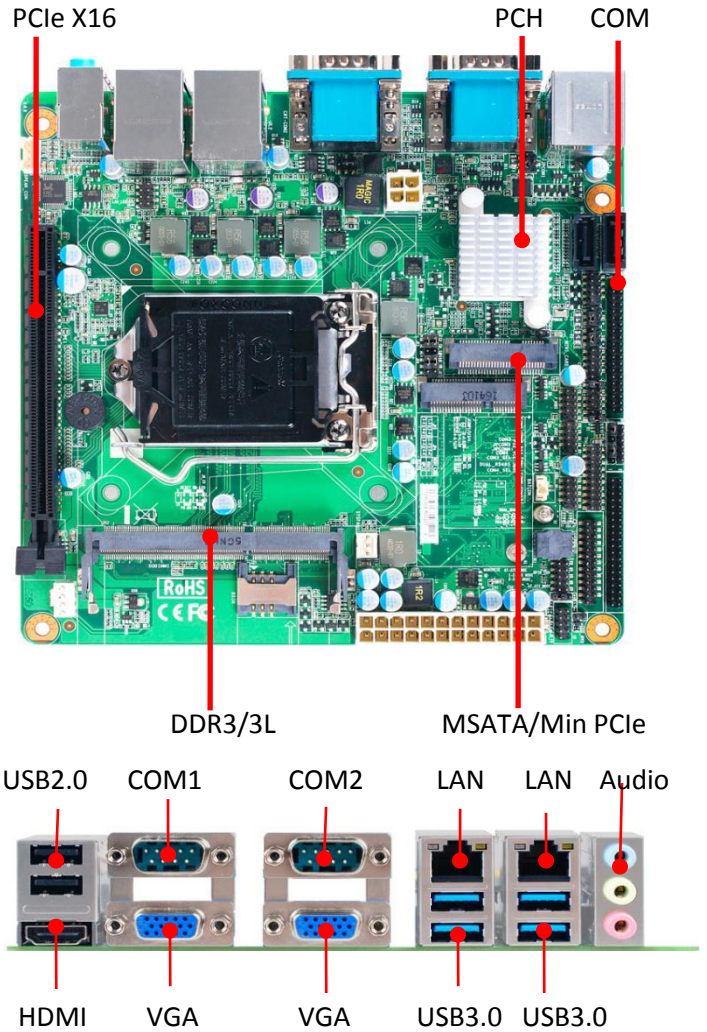


Intel H81 Mini-ITX Support LGA1150 4<sup>th</sup> Gen Haswell Core i3/i5/i7 /Pentium/Celeron Processor w /2VGA/HDMI/2GbE/12COM/12USB

## Specification

|                |  |   |
|----------------|--|---|
| Processor      | CPU                                      | Intel 4 <sup>th</sup> Gen i3/i5/i7/Pentium/Celeron  |
|                | Socket                                   | LGA1150   |
|                | Chipset                                  | Intel H81 PCH   |
|                | BIOS                                     | AMI UEFI  |
| DRAM           | Technology                               | DDR3/DDR3L 1600MHz  |
|                | Capacity                                 | up to 16GB  |
|                | Socket                                   | 2 x 204-Pin SO-DIMM slot  |
| Display        | Graphics                                 | Intel HD Graphics support DX11.1 & OpenCL 1.2   |
|                | Graphics Memory                          | Share System memory up to 1.7GB SDRAM   |
|                | VGA                                      | 2 (support dummy load)  |
|                | HDMI                                     | 1 (Ver:1.4a)  |
|                | Multi-Display                            | 2 Independent display   |
| LAN            | 2 x Intel GbE Controller (i211-AT)       |   |
| Audio          | Realtek ALC662 w/Line-Out/Line-in/Mic    |   |
|                | CD-In                                    | N/A   |
| Watchdog       | Software Programming 1~255s System Reset |   |
| TPM            | Yes                                      |   |
| Storage        | SATA                                     | 2 x SATA3.0 ( 6Gb/s )   |
|                | mSATA                                    | 1 (Share with Mini PCIe)  |
| I/O            | Serial Port                              | 12 x RS232(COM1 .2 support RS232/422/485, COM3.4 support RS232/485, Without optical barrier function) |
|                | LPT                                      | Yes   |
|                | USB                                      | 4 x USB3.0 + 8 x USB2.0   |
|                | GPIO                                     | 4-In , 4-Out  |
|                | PS/2                                     | Yes   |
|                | Expansion Slot                           | PCIe x16  |
| Expansion Slot | PCI                                      | N/A   |
|                | Mini PCIe                                | 2 (Full-size)<br>(One share with mSATA)   |
| Power          | Type                                     | ATX   |
| Form Factor    | 170mm x 170mm (Mini-ITX)                 |   |
| Environment    | Operation Temp                           | -10~60°C/10~90%,non-condensing  |
|                | Storage Temp & Humidity                  | -20~80°C/10~90%,non-condensing  |
| Certification  | EMC                                      | CE / FCC  |



## Packing List

| P/N       | Spec.                          |
|-----------|--------------------------------|
| 921500105 | 1pcs x COM Port PHD 2.00 Cable |
| 920700315 | 1pcs *PHD Dual USB Cable       |
| 920312322 | 1pcs *SATA Data Cable          |
| /         | 1pcs x I/O Shield              |

## Ordering Information

|       |   |
|-------|---|
| P/N   | 128635505   |
| Model | SYS86355VGGA-E  |
| Spec. | Intel H81 Mini-ITX w/2VGA/HDMI//2GbE/HDA /12COM/12USB |

## Processor (Optional)

|       |         |          |         |         |         |          |          |         |         |         |         |        |        |
|-------|---------|----------|---------|---------|---------|----------|----------|---------|---------|---------|---------|--------|--------|
| CPU   | i7-4790 | i7-4770T | i7-4770 | i5-4690 | i5-4590 | i5-4570T | i5-4460T | i3-4370 | i3-4360 | i3-4340 | i3-4170 | G3250  | G1840  |
| Speed | 3.6GHz  | 2.5GHz   | 3.4GHz  | 3.5GHz  | 3.3GHz  | 2.9GHz   | 1.9GHz   | 3.8GHz  | 3.7GHz  | 3.6GHz  | 3.7GHz  | 3.2GHz | 2.8GHz |
| Cache | 8M      | 8M       | 8M      | 6M      | 6M      | 4M       | 6M       | 4M      | 4M      | 4M      | 3M      | 3M     | 3M     |
| Core  | 4C/8T   | 4C/8T    | 4C/8T   | 4C/4T   | 4C/4T   | 2C/4T    | 4C/4T    | 2C/4T   | 2C/4T   | 2C/4T   | 2C/4T   | 2C/2T  | 2C/2T  |
| TPD   | 84W     | 45W      | 84W     | 84W     | 84W     | 35W      | 35W      | 54W     | 54W     | 54W     | 54W     | 52W    | 52W    |