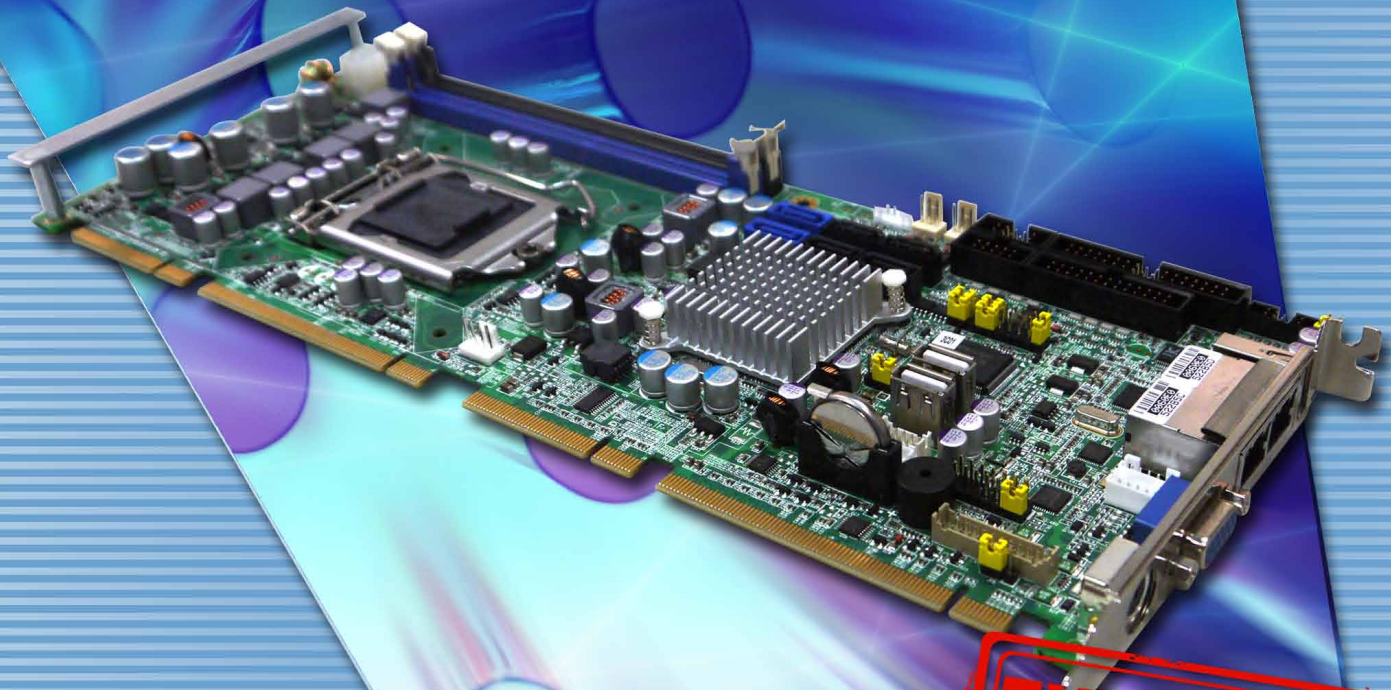


# XTR9145A

# PERFECTRON

Intel® Core™ i7/i5/i3 PICMG1.3 Full-size SHB with Intel® Sandy Bridge Q67 Chipset



**EXTENDED  
TEMPERATURE**

## KEY FEATURE

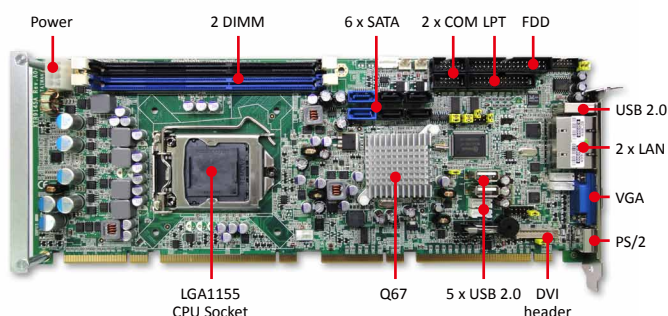
- Supports Intel® LGA1155 Core™ i7/i5/i3 processor
- Supports Dual Channel DDR3 1066/1333 MHz up to 16 GB
- Supports Intel® AMT 7.0
- PCIe Gen2 at 5GT/s
- 10 x USB ports
- VGA + DVI-D (pin-header)
- 1 x LPT, 1 x floppy

*it's perfect!*

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## Main Features

- Supports Intel® LGA1155 Core™ i7/i5/i3 processor
- Supports Dual Channel DDR3 1066/1333 MHz up to 16 GB
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## ► Specifications

### System

|                     |                                                                                                                                                                                                                                                                  |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CPU Type            | Intel® LGA 1155 socket for Core™ i7/i5/i3 processor<br>Core™ i7-2600 3.4 GHz (8M Cache, 95W)<br>Core™ i5-2400 3.1 GHz (6M Cache, 95W)<br>Core™ i3-2120 3.3 GHz (3M Cache, 65W)<br>Pentium® G850 2.9 GHz (3M Cache, 65W)<br>Pentium® G540 2.5 GHz (2M Cache, 65W) |
| Chipset             | Intel® Q67 PCH                                                                                                                                                                                                                                                   |
| Memory Type         | 2 x 240-pin DIMM dual channel<br>DDR3 1066/1333 MHz, up to 16 GB                                                                                                                                                                                                 |
| BIOS                | AMI® UEFI BIOS                                                                                                                                                                                                                                                   |
| Super I/O           | W83627 DHG                                                                                                                                                                                                                                                       |
| iAMT                | Supports iAMT 7.0                                                                                                                                                                                                                                                |
| Watchdog            | 1-255 sec. or 1-255 min. software programmable,<br>can generate system reset                                                                                                                                                                                     |
| Expansion Interface | 1 x PCIe x16<br>1 x PCIe x4<br>4 x PCI                                                                                                                                                                                                                           |

### Display

|                                                               |                                                   |
|---------------------------------------------------------------|---------------------------------------------------|
| Chipset                                                       | Intel® HD Grapics 3000 integrated graphics engine |
| Onboard VGA                                                   | Yes (Max. resolution 2048 x 1536)                 |
| Dual Independent VGA+DVI-D (pin-header)<br>Display Capability |                                                   |

### Audio

|       |                                                          |
|-------|----------------------------------------------------------|
| Codec | Realtek ALC662 Integrated High Definition Audio<br>Codec |
|-------|----------------------------------------------------------|

### Ethernet

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

### Rear I/O

|          |                             |
|----------|-----------------------------|
| VGA      | 1                           |
| Ethernet | 2 x RJ45                    |
| USB      | 1 x USB2.0                  |
| PS/2     | 1 x PS/2 keyboard and mouse |

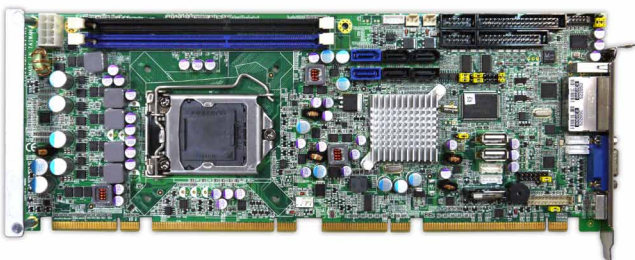
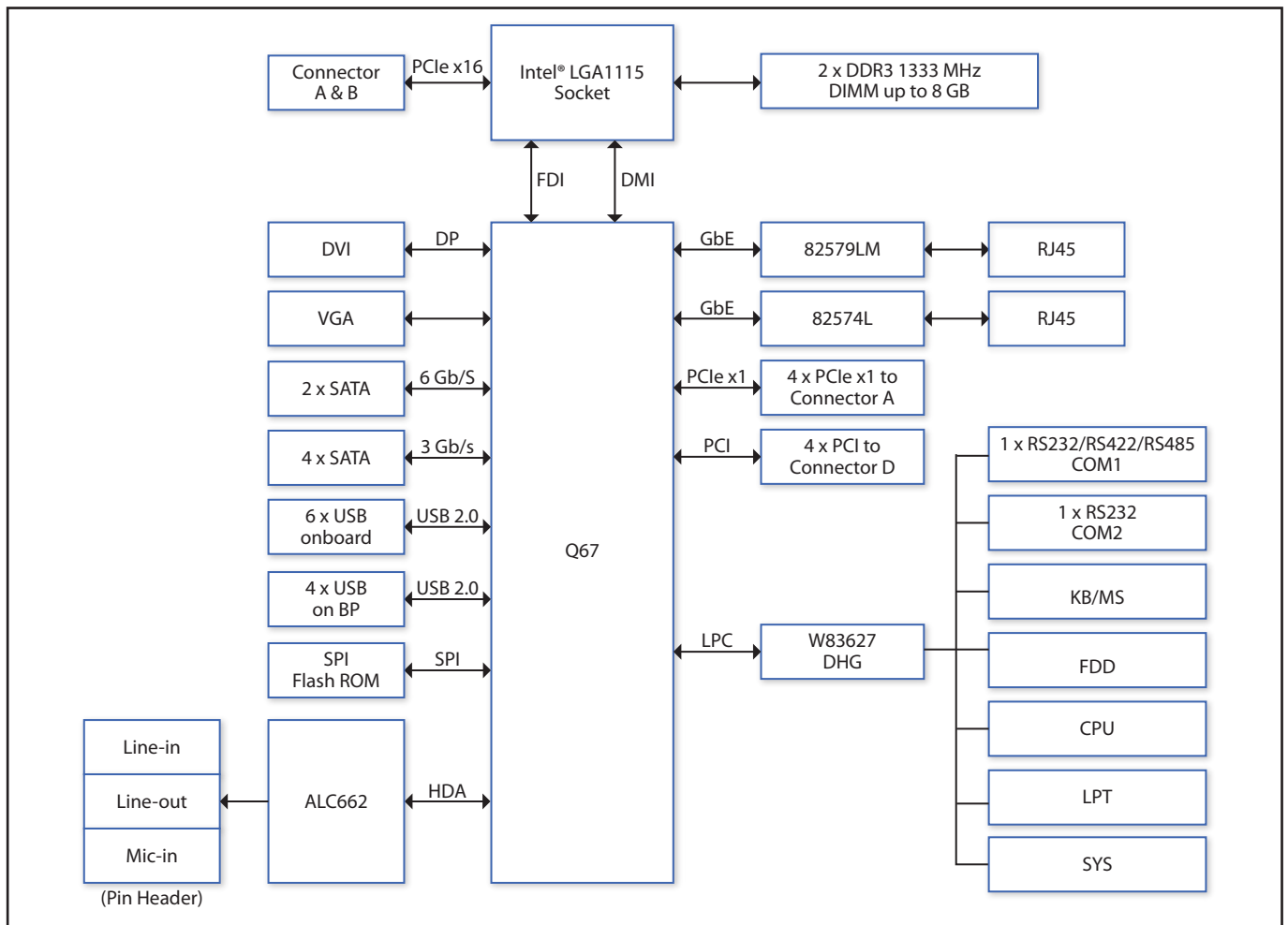
### I/O Interface

|       |                                                                                                   |
|-------|---------------------------------------------------------------------------------------------------|
| SATA  | 2 x SATA III (6 Gb/s)<br>4 x SATA II (3Gb/s S/W RAID 0,1, 5, 10)                                  |
| USB   | 9 x USB2.0<br>• 2 ports by vertical<br>• 3 ports by pin header<br>• 4 ports through golden finger |
| COM   | 2 x COM ports<br>• 1 x RS232/422/485<br>• 1 x RS232                                               |
| Fan   | CPU/System fan connectors                                                                         |
| SMBus | System Management Bus for advanced<br>monitoring/control                                          |

### Mechanical and Environment

|                   |                                                                          |
|-------------------|--------------------------------------------------------------------------|
| Form Factor       | PICMG 1.3 SHB                                                            |
| Power Type        | Power from backplane through golden finger<br>8-pin, 12V power connector |
| Dimension         | 338 x 126 mm (13.3" x 4.9")                                              |
| Operating Temp.   | 0 to 60°C                                                                |
| Storage Temp.     | -20 to 85°C                                                              |
| Relative Humidity | 10% to 90%, non-condensing                                               |

## ► Block Diagram



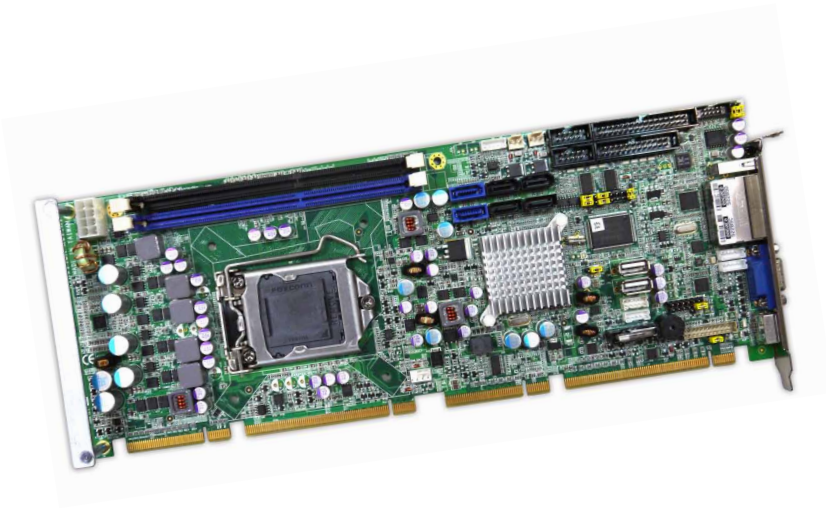
## ► Packing List

- XTR9145A PICMG 1.3 SHB
- 1 x COM + print cable W/bracket
- 1 x SATA cable
- 1 x DVI-D cable w/bracket
- 1 x Audio cable w/bracket
- 1 x PS2 cable
- CD (Driver + user's manual)

## ► Ordering Information

### Modules

| Model Number | Description                                                                                                                          |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------|
| XTR9145A     | Full-size PICMG SHB 1.3 Intel® LGA1155 Core™ i7/i5 /i3 with DDR3 SDRAM, VGA, DVI-D, Dual PCIe GbE LAN, 10 x USB, 6 x SATA, and Audio |



## ► Applications

