# Single Board Computer

***Full-size***

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***Full-size PICMG 1.0 CPU Card supports 32nm LGA 1155 Intel® Core™ i7/ i5/i3, Pentium® or Celeron® CPU with Intel® H61, DDR3, VGA, DVI-D, Dual Realtek PCIe GbE, USB 2.0, SATA 3Gb/s, COM, HD Audio and RoHS***

**WSB-H610-R11**

Front panel

4 x SATA 3Gb/s 2 x RS-232 ATXCTL

Dual-channel DDR3 1333/1066 MHz

SMBus

I²C

**Intel® H61**

TPM

KB/MS

FDD

LPT DIO IR

VGA USB 2.0

LAN

KB/MS

## 45W

DVI-D

Audio

6 x USB 2.0

PCIe Mini

# *Specifications*

CPU

## CF-115XC-R10

1U chassis compatible

# *Features*

## IO-KIT-001-R20

DVI cable included in DVI model

LGA 1155 socket supports Intel® Core™ i7/i5/i3, Pentium® or Celeron® processor Chipset

WSB-H610-2019-V11

Intel® H61

Memory

Two 240-pin 1333/1066 MHz dual-channel DDR3 & DDR3L SDRAM unbuffered DIMMs support up to 16 GB

BIOS UEFI

Graphics Engine

Intel® HD Graphics Gen 6 supports DX10.1 and OpenGL 3.0 Full MPEG2, VC1, AVC Decode

Display Output

1 x VGA (up to 2048x1536@75Hz)

1 x DVI-D (up to 1920x1200@60Hz)

(via header to IO-KIT-001-R20 DVI-D/USB module) (optional) Ethernet

LAN1: Realtek RTL8111E PCIe GbE controller with ASF 2.0 support

LAN2: Realtek RTL8111E PCIe GbE controller External I/O Interface

1 x KB/MS 1 x USB 2.0

Internal I/O Interface

1. x FDD (2x17 pin) 1 x KB/MS (1x6 pin)

1 x LPT (2x13 pin) 1 x RS-422/485 (1x4 pin, P=2.0)

1. x RS-232 (2x5pin, P=2.54) 4 x SATA 3Gb/s (no AHCI & RAID support) 6 x USB 2.0 (2x4 pin, P=2.54)

Audio

Supports 7.1-channel HD Audio by IEI AC-KIT-892HD-R10 kit Front Panel

1 x Front panel (2x7 pin, power LED, HDD LED, speaker, power button, reset button)

TPM

1 x TPM (2x10 pin) SMBus

1 x SMBus (1x4 pin)

I²C

1 x I²C (1x4 pin) Expansion

PCI signal and ISA signal via golden finger

Watchdog Timer

Software programmable supports 1~255 sec. system reset Digital I/O

8-bit digital I/O (2x5 pin)

Fan Connector

1 x CPU smart fan (1x4 pin)

1 x System smart fan (1x4 pin) Power Supply

5V/12V, AT/ATX support

Power Consumption

5V@4.53A, 12V@0.19A, Vcore\_12V@7.81A, 5VSB@0.18A

(3.4GHz Intel® Core™ i7-2600K with two 2 GB 1333 MHz DDR3 memory) Operating Temperature

-10°C ~ 60°C

Storage Temperature

-20°C ~ 70°C

Operating Humidity

5% ~ 95%, non-condensing Dimensions

338 mm x 122 mm

Weight

GW: 1000g / NW: 260g

CE/FCC compliant

* Full-size PICMG 1.0 CPU card with LGA 1155 Intel® Core™ i7/i5/i3, Pentium® or Celeron® processor supported
* Two DDR3 & DDR3L 1333/1066 MHz DIMM SDRAM support up to 16 GB
* Embedded controller on board supports infrared and PECI 2.0 technologies
* Dual Realtek PCIe GbE and LAN1 with ASF 2.0 support
* TPM V1.2 hardware security function supported by TPM module
* IEI One Key Recovery solution allows you to create raipd OS backup and recovery

# *Packing List*

|  |
| --- |
| 1 x WSB-H610 single board computer |
| 1 x Dual RS-232 cable with bracket |
| 1 x KB/MS Y cable |
| 1 x USB cable |
| 2 x SATA cable |
| 1 x Mini jumper pack |
| 1 x QIG |

***Ordering Information***

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| --- | --- |
| Part No. | Description |
| WSB-H610-R11 | Full-size PICMG 1.0 CPU card supports 32nm LGA 1155 Intel® Core™ i7/i5/i3, Pentium® or Celeron® CPU with Intel® H61, DDR3, VGA, dual Realtek PCIe GbE, USB 2.0, SATA 3Gb/s, COM, HD Audio and RoHS |
| WSB-H610-DVI-R11 | Full-size PICMG 1.0 CPU card supports 32nm LGA 1155 Intel® Core™ i7/i5/i3, Pentium® or Celeron® CPU with Intel® H61, DDR3, VGA, DVI-D, dual Realtek PCIe GbE, USB 2.0, SATA3Gb/s, COM, HD Audio and RoHS |
| 19800-000049-RS | LPT flat cable, 240mm, P=2.54 |
| 19800-000075-RS | PS/2 KB/MS cable with bracket, 220mm, P=2.0 |
| 32006-000300-100-RS | PS/2 KB/MS Y-cable without bracket, 140mm/120mm |
| 32102-000100-200-RS | SATA power cable, MOLEX 5264-4P to SATA15P |
| 32200-000017-RS | FDD cable, 520mm, P=2.54 |
| AC-KIT-892HD-R10 | 7.1-channel HD Audio kit with Realtek ALC892 supports dual audio streams |
| CF-115XA-R10 | High performance LGA 1155/LGA 1156 cooler kit, 1U chassis compatible, 73W |
| CF-115XC-R10 | LGA 1155/LGA 1156 cooler kit, 1U chassis compatible, 45W |
| CF-115XD-R10 | LGA 1155/LGA 1156 cooler kit, 1U chassis compatible, 65W |
| CF-115XE-R10 | High performance LGA 1155/LGA 1156 cooler kit, 95W |
| SAIDE-KIT01-R10 | SATA to IDE/CF converter board |
| TPM-IN01-R20 | 20-pin Infineon TPM module, software management tool, firmware v3.17 |