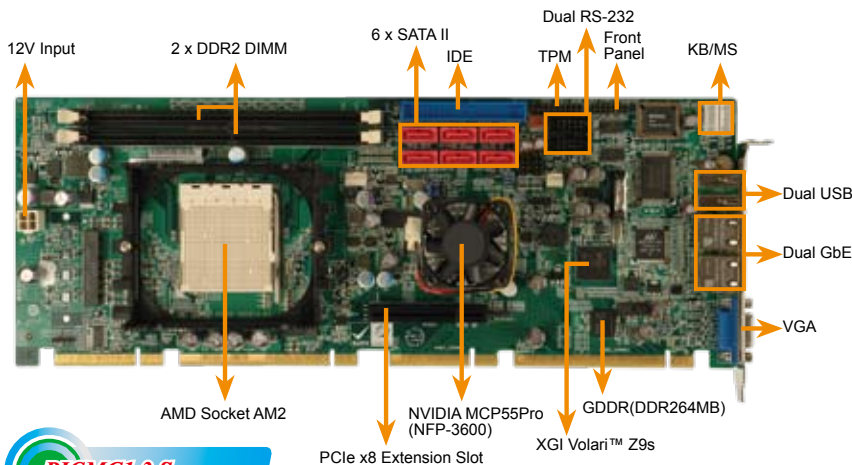


SPCIE-3600AM2

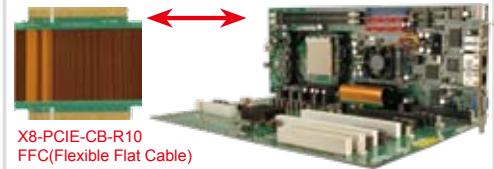
Full-size PICMG 1.3 CPU card supports AMD Socket AM2 Opteron™, Athlon™ 64 X2, Athlon™ 64 and Sempron™ processors and comes with CRT output, dual GbE with fail over/load balancing, six SATA II with RAID function and ten USB 2.0



Specifications

- ◆ CPU
Socket AM2 AMD Opteron™, Athlon™ 64 X2, Athlon™ 64 and Sempron™ processors
- ◆ System Chipset
NVIDIA MCP55Pro (NFP-3600)
- ◆ BIOS
AMI BIOS Label
4Mb PLCC EEPROM
- ◆ Memory
Two 2.0 GB (max.). 240-pin 800 MHz, 667 MHz or 533 MHz dual-channel DDR2 SDRAM DIMM supported (system max. 4GB)
- ◆ Ethernet
2 x GbE (Marvell 88E1121/PHY) with Load Balancing and Fail Over support
- ◆ I/O Interfaces
2 x RS-232
10 x USB 2.0
(2 on bracket, four on SBC, four on backplane)
1 x IDE
6 x SATA II (RAID 0, 1, 10, 5, JBOD)
1 x Keyboard
1 x Mouse
- ◆ Digital I/O
N/A
- ◆ Display Interfaces
D-Sub Analog CRT Output via XGI Volari™ Z9s PCI graphic controller
- ◆ Expansion
One PCIe x8 (for X8-PCIE-CB-R10)
- ◆ Audio
10-pin on-board header connects to the IEI AC-KIT883HD 7.1 channel HD Audio kit
- ◆ WDT
Software programmable, supports 1~255 sec. system reset
- ◆ Power Supply
ATX
- ◆ Power Consumption
3.3 V @ 4.83 A, 5 V @ 2.53 A, 5 Vsb @ 0.45 A, 12 V @ 0.2 A, Vcore @ 5.98A running 3DMark 2001 SE with an AMD Sempron™ 3600+ and one 1 GB 667 MHz DDR2 SDRAM DIMM
- ◆ Temperature
Operation: 0°C~60°C (32~140°F)
- ◆ Humidity
Operation: 5%~95% non-condensation
- ◆ Dimension
338 mm x 126 mm
- ◆ Weight
GW: 1.2 kg

Earning extra PCIe x8 Bandwidth beyond 20 PCIe of PICMG1.3



IEI SPE / SPXE series backplanes

SPE-4S
SPE-6S
SPE-9S
SPXE-9S
SPXE-14S

ECC Support

DDR2 800



Features

1. PICMG1.3 with RoHS compliant
2. AMD® Socket AM2 support Opteron™, Athlon™ 64 X2, Athlon™ 64 and Sempron™ processors
3. NVIDIA NFP-3600 server-grade platform supports 28 configurable PCIe lanes for flexible PCIe applications
4. On-board graphics unit provides VGA output
5. Two 2GB DDR2 dual-channel SDRAM DIMM with ECC checking are supported.
6. Dual GbE support fail over & load balancing
7. Six SATA II with RAID 0, 1, 10, 5, JBOD function supported

Packing List

1 x SPCIE-3600AM2 single board computer
1 x ATA 66/100 flat cable (P/N: 32200-000052-RS)
1 x Mini jumper pack
1 x Dual RS-232 cable (P/N:19800-000051-RS)
6 x SATA cable (P/N:32000-000138-RS)
3 x SATA power cable (P/N:32100-087100-RS)
1 x USB cable (P/N: CB-USB02-RS)
1 x Utility CD
1 x QIG

Ordering Information

Part No.	Description
SPCIE-3600AM2-R10	Full size PICMG1.3 CPU card with AMD Socket AM2, NVIDIA NFP-3600 platform, analog CRT output, dual GbE, one IDE, six SATA II, ten USB 2.0
X8-PCIE-CB-R10	PCIe x8 connection board for SPCIE-3600AM2
TPM-IN01-R10	Infineon 20-pin trusted platform module with S/W management Tool
TPM-WI01-R10	Winbond 20-pin trusted platform module with S/W management Tool
CF-519-RS	CPU cooler
CF-AM2-RS	CPU cooler
19800-000066-RS	Keyboard and mouse cable with bracket
AC-KIT883HD-R10	7.1 channel HD audio kit with realtek ALC883 supports dual audio streams
24105-000029-RS	AMD Athlon 64 X2 Dual-Core 3400+ 1.8GHz; 512KBx2, 1000MHz, TDP 35W, Socket AM2 (940 pins), RoHS
24105-000052-RS	AMD Athlon 64 Single-Core 3000+ 1.8GHz; 512KBx2, 1000MHz, TDP 35W, Socket AM2 (940 pins), RoHS

PCIE-Q350

Full-size PICMG 1.3 CPU card supports 45 nm LGA 775 Intel® Core™2 Duo and Core™2 Quad processors with an 800 MHz, 1066 MHz or 1333 MHz FSB and comes with an Intel® Q35 GMCH, ICH9DO I/O controller hub, dual Intel® GbE, SATA II with RAID and USB 2.0

1 Application Server Platform

2 Single Board Computer

3 IBX Series POS PC

4 AFOLLUX POS Panel PC

5 Video Capture Card

6 KAMIO RISC

7 IOVU Open HMI

8 VITO Universal Controller

9 DINO BLADE

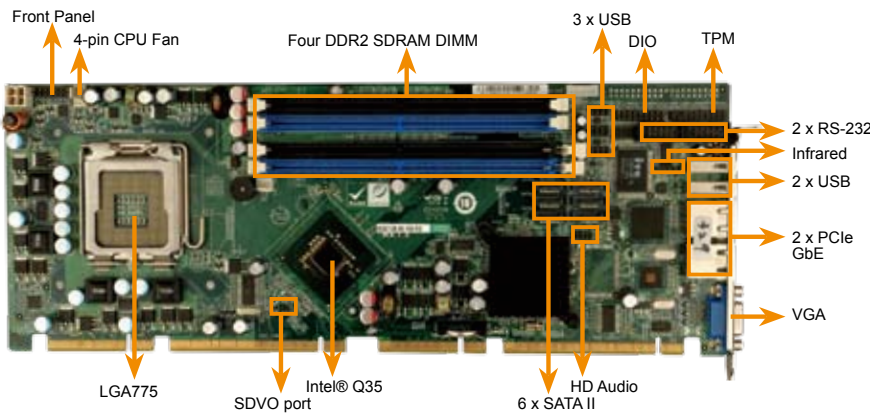
10 LCD Product Series

11 Embedded System

12 Industrial Computer Chassis

13 Power Supply

14 Peripherals



Generation	Core Duo / Core 2 Duo / Core 2 Quad							
Process	65nm	45nm						
CPU	Quad Core Yorkfield • Quad Core • Up to 12MB L2 • 95W/130W TDP • FSB1333/1066/800MHz IEI Solution <table border="1"> <tr><td>PCIE-Q350</td></tr> <tr><td>IMB-Q354</td></tr> <tr><td>WSB-Q354</td></tr> </table>	PCIE-Q350	IMB-Q354	WSB-Q354	 Yorkfield • Quad Core • Up to 12MB L2 • 95W/130W TDP • FSB1333/1066/800MHz IEI Solution <table border="1"> <tr><td>PCIE-Q350</td></tr> <tr><td>IMB-Q354</td></tr> <tr><td>WSB-Q354</td></tr> </table>	PCIE-Q350	IMB-Q354	WSB-Q354
	PCIE-Q350							
IMB-Q354								
WSB-Q354								
PCIE-Q350								
IMB-Q354								
WSB-Q354								
Dual Core Wolfdale • Dual Core • Up to 6MB L2 • 65W TDP • FSB1333/1066/800MHz IEI Solution <table border="1"> <tr><td>PCIE-Q350</td></tr> <tr><td>IMB-Q354</td></tr> <tr><td>WSB-Q354</td></tr> </table>	PCIE-Q350	IMB-Q354	WSB-Q354	 Wolfdale • Dual Core • Up to 6MB L2 • 65W TDP • FSB1333/1066/800MHz IEI Solution <table border="1"> <tr><td>PCIE-Q350</td></tr> <tr><td>IMB-Q354</td></tr> <tr><td>WSB-Q354</td></tr> </table>	PCIE-Q350	IMB-Q354	WSB-Q354	
PCIE-Q350								
IMB-Q354								
WSB-Q354								
PCIE-Q350								
IMB-Q354								
WSB-Q354								
FSB	1066 / 800 / 533MHz	1333 / 1066 / 800MHz						

Specifications

LGA 775 Intel® Core™2 Quad, Core™2 Duo, Pentium® D, Pentium® 4 and Celeron® D processors with a, 800 MHz, 1066MHz, and 1333MHz FSB

- ◆ System Chipset
Intel® Q35 + ICH9-DO
- ◆ BIOS
AMI BIOS Label with 8Mb SPI EEPROM
- ◆ System Memory
Four 240-pin 2 GB (max.) 800 MHz, 667 MHz or 533 MHz dual-channel DDR2 SDRAM DIMM supported (system max. 8GB)
- ◆ Ethernet
Dual GbE
LAN1: Intel® 82566DM GbE controller with iAMT support
LAN2: Intel® 82573L GbE controller
- ◆ IO Interface
2 x RS-232
12 x USB 2.0
(2 on bracket, six on SBC, four on backplane by pin header)
6 x SATA II (RAID 0, 1, 5, 10)
1 x Infrared
1 x Digital Input/Output
1 x Keyboard and mouse connector
1 x TPM
- ◆ Digital I/O
16-bit Digital I/O, 8-bit input / 8-bit output
- ◆ Infrared connector
1 x Infrared by pin header
- ◆ Audio
10-pin on-board header connects to the IEI AC-Kit883HD 7.1 channel HD Audio kit
- ◆ Graphics
Analog VGA output
SDVO port
- ◆ TPM1.2
1 x 20-pin on-board header for TPM (Trusted Platform Module)
- ◆ Watchdog Timer
Software Programmable supports 1~255sec. system reset
- ◆ Power Supply
ATX
- ◆ Power Consumption
3.3V@3.0A, 5V@5.1A, 5Vsb@0.28A, 12V-@4.23A
(Intel® Core 2 Duo E6700 2.66GHz at FSB1066, 8GB DDR2 667MHz, 3DMark 2001)
- ◆ Temperature
operation: 0°C ~ 60°C (32°F ~ 140°F)
- ◆ Humidity
operation: 5% ~95% non-condensing
- ◆ Dimensions
338 mm x 126 mm
- ◆ Weight
GW:1.1 kg

FSB 1333 DDR2 800



Intel® Matrix Storage Manager

Features

1. PICMG1.3 and RoHS compliant
2. Supports 45nm LGA775 Intel® Core™2 Duo and Core™2 Quad processors
3. Intel® Q35 & ICH9-DO Platform
4. Six SATAII Ports with Intel Matrix storage technology supported
5. Dual Intel® PCIe GbE
6. TPM1.2 IT security solution supported

Packing List

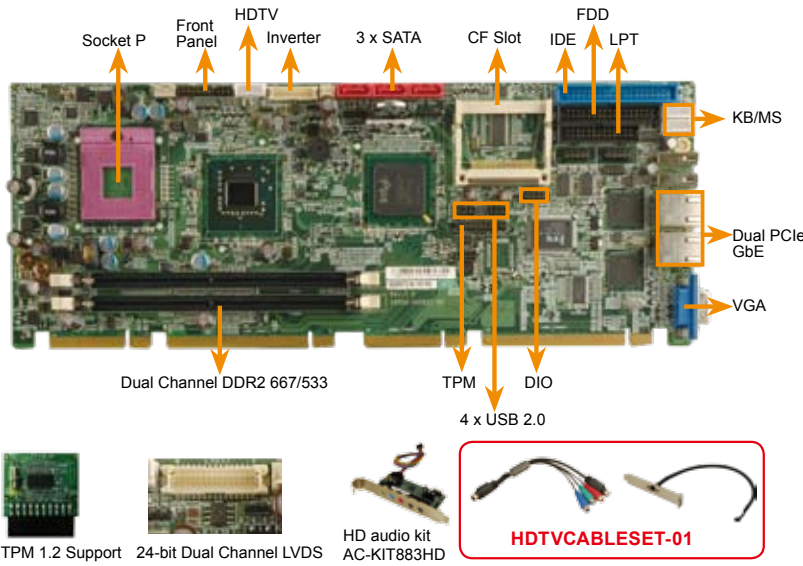
- 1 x PCIE-Q350 single board computer
- 1 x Mini jumper pack
- 6 x SATA cable (P/N: 32000062800-RS)
- 3 x SATA power cable (P/N: 32100-088600-RS)
- 1 x Dual RS-232 cable (P/N:19800-000051-RS)
- 1 x USB cable (P/N: CB-USB02-RS)
- 1 x Utility CD
- 1 x QIG

Ordering Information

Part No.	Description
PCIE-Q350-R10	PICMG1.3 CPU Card supports Intel® 45nm LGA 775 Core™2 Duo/Quad CPU at FSB800/1066/1333MHz, Intel Q35 & ICH9DO platform, Dual Intel® GbE, SATA II with RAID, USB
AC-KIT883HD-R10	7.1 Channel HD Audio kit with Realtek ALC883 supports dual audio streams
CF-520-RS	High Performance CPU cooler (115mm x 115mm x 67mm, 115W)
CF-775A-RS	High Performance CPU Cooler (92 mm x 92 mm x 73 mm, 130W)
TPM-IN01-R10	Infineon 20-pin Trusted Platform Module with S/W Management Tool
TPM-WI01-R10	Winbond 20-pin Trusted Platform Module with S/W Management Tool
SDVO-100VGA-R10	PCIe x16 VGA Output SDVO Card supports dual display (IEI CPU board only)
SDVO-100DVI-R10	PCIe x16 DVI Output SDVO Card supports dual display (IEI CPU board only)
19800-000075-RS	KB/MS Cable with Bracket

PCIE-9652

Full-size PICMG 1.3 CPU card supports mobile 65 nm Intel® Core™2 Duo processors with an 800 MHz FSB and comes with an Intel® GME965 GMCH, ICH8M-E I/O controller hub, dual GbE, three SATA II with RAID and ten USB 2.0



Generation	Core™2 Duo		
	65nm		45nm
Process	677 / 533 MHz		1066 / 800MHz
FSB	800 / 667 MHz		
Architecture	Merom Napa Refresh	Merom Santa Rosa	Penryn
	Socket M	Socket P	Socket P
TDP	34W		29W
Platform			
	945GM		GM965 CAntiga EXPRESS CHIPSET

Dual DDR2 667 FSB 800 Socket P



Specifications

- ◆ CPU
Socket P Intel® Core™2 Duo, Core™ Duo, Core™ Solo and Celeron® M Mobile processors with a 533 MHz or 800 MHz FSB
- ◆ System Chipset
Intel® GME965 + ICH8M-E
- ◆ BIOS
AMI BIOS
- ◆ Memory
Two 240-pin 2 GB (max.) 667 MHz or 533 MHz dual-channel DDR2 SDRAM DIMM supported (system max. 4GB)
- ◆ Graphics
Integrated in GME965(Mobile Intel® GMA X3100) support Intel® Clear Video Technology
- ◆ Display Output
TV-out (NTSC/PAL and Max. 1080i HDTV Resolution via Component output)
18/24-bit dual-channel LVDS
Analog CRT
- ◆ Ethernet
Dual Intel® 82573L PCIe GbE controllers
- ◆ I/O Interfaces
2 x RS-232
1 x LPT
1 x FDD
2 x 5-pin wafer on board for KB/MS
3 x SATA II with RAID 0, 1, 5, 10 function
1 x IDE
10 x USB 2.0 (Two on bracket, four on-board and four on backplane)
1 x TPM
- ◆ Digital I/O
8-bit digital I/O (4-bit input, 4-bit output)
- ◆ Audio
10-pin on-board header connects to the IEI AC-KIT883HD 7.1 channel HD Audio kit
- ◆ SSD
CF Type II
- ◆ WDT
Software Programmable support 1~255 sec. System reset
- ◆ Power Supply
ATX
- ◆ Power Consumption
3.3 V @ 0.13 A, 5 V @ 5.3 A, 5 Vsb @ 0.04 A, 12 V @ 1.3 A running
3DMark® 2001 with a 2 GHz Intel® Core™2 Duo T7300 processor and 1 GB of 667 MHz DDR2 SDRAM
- ◆ Temperature
0°C ~ 60°C (32°F ~ 140°F)
- ◆ Humidity
5%~95% non-condensation
- ◆ Dimension
338 mm x 126 mm
- ◆ Weight
GW:1.1 kg

Features

1. Supports mobile Merom core 65 nm Intel® Core™2 Duo processors with an 800MHz FSB
2. Two 240-pin 2 GB (max.) 667 MHz or 533 MHz dual-channel DDR2 SDRAM DIMM supported (system max. 4GB)
3. Supports analog CRT, 18/24-bit dual-Channel LVDS and HDTV output
4. Dual Intel® PCIe GbE controllers
5. Three 3.0 Gbps SATA II connectors with RAID function support

Packing List

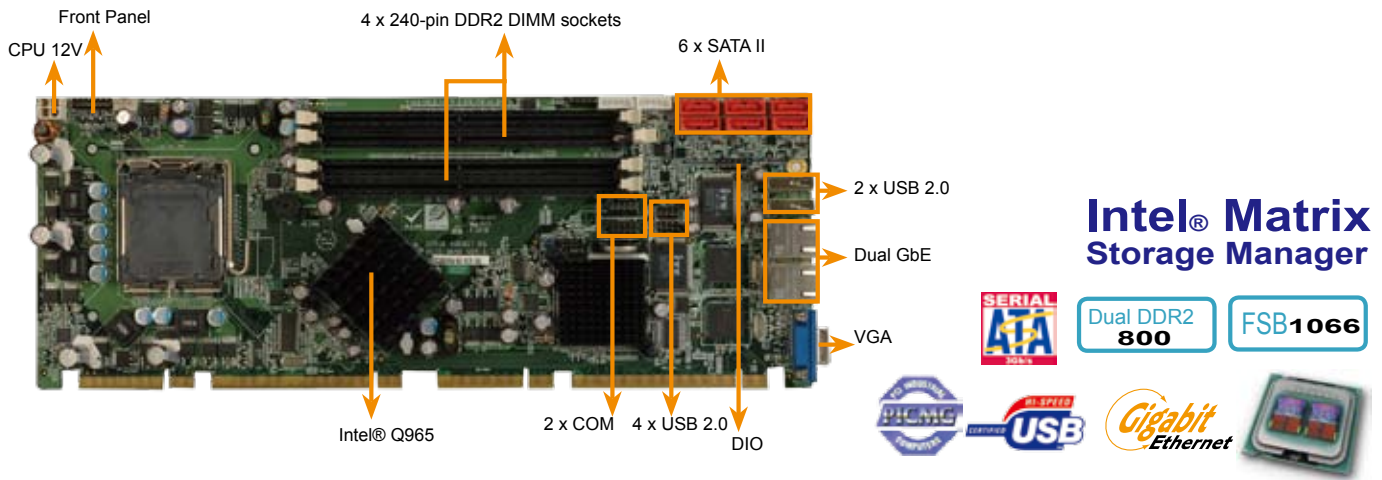
1 x PCIE-9652 Single board computer
1 x Mini jumper pack
3 x SATA cable (P/N: 32000062800-RS)
1 x SATA power cable (P/N: 32100-088600-RS)
1 x Dual RS-232 cable (P/N:19800-000051-RS)
1 x USB cable (P/N: CB-USB02-RS)
1 x Utility CD
1 x QIG

Ordering Information

Part No.	Description
PCIE-9652-R10	PICMG1.3 Full Size with Intel® 65nm Mobile Core™2 Duo Process(Merom) at FSB 800 MHz, Intel® GME965 & ICH8M-E Platform CRT/24-bit LVDS/HDTV output, Dual GbE, 3 SATA II with RAID, 10 USB 2.0
TPM-WI01-R10	20-pin Winbond TPM with Software management tool
TPM-IN01-R10	20-pin Infineon TPM with Software management tool
CF-479B	CPU cooler
AC-KIT883HD-R10	7.1 Channel HD audio kit with Realtek ALC883 supports dual audio streams
32200-000017-RS	FDD cable
19800-000066-RS	KB/MS cable with bracket
HDTVCABLESET-01	HDTV Cable Set with S-Video/ Composite/ Component Interface

PCIE-9650-R11

Full-size PICMG 1.3 CPU card supports LGA 775 Intel® Core™2 Quad processors and comes with VGA, dual PCIe GbE, SATA II and USB 2.0



Specifications

- ◆ CPU
LGA 775 Intel® Core™2 Quad, Core™2 Duo, Pentium® D, Pentium® 4 and Celeron® D processors with a 533 MHz, 800 MHz or 1066MHz FSB
- ◆ System Chipset
Intel® Q965 + ICH8DO
- ◆ BIOS
AMI Flash BIOS
- ◆ System Memory
Four 240-pin 2 GB (max.) 800 MHz, 667 MHz or 533 MHz dual-channel DDR2 SDRAM DIMM supported (system max. 8 GB)
- ◆ Ethernet
Dual Intel® 82573L PCIe GbE controllers
- ◆ I/O Interface
2 x RS-232
10 x USB 2.0
(Two on the bracket, four on-board and four on the backplane)
6 x SATA II with Intel RAID 0,1,5 and 10
1 x Keyboard
1 x Mouse
- ◆ Digital I/O
8-bit digital I/O, 4-bit input/ 4-bit output
- ◆ Infrared connector
1 x Infrared by pin header
- ◆ Super I/O
ITE IT8712F
- ◆ Display Interface
VGA Integrated in Intel® Q965
- ◆ Audio
10-pin on-board header connects to the IEI AC-Kit883HD 7.1 channel HD Audio kit
- ◆ SSD
N/A
- ◆ Watchdog Timer
Software programmable supports 1 ~255 sec. System reset
- ◆ Power Supply
ATX Power
- ◆ Power consumption
5 V @ 7.02 A, 3.3 V @ 1.1 A, 5 VSB @ 0.29 A, 12 V (20-pin) @ 0.27 A, 12 V (4-pin) @ 6.66 A running an Intel® QX6700 processor and 4 GB of 800MHz DDR2 SDRAM
- ◆ Temperature
operation: 0°C ~ 60°C (32 ~ 140°F)
- ◆ Humidity
operation: 5% ~95% non-condensing
- ◆ Dimensions
338 mm x 126 mm
- ◆ Weight
GW: 1200 g / NW: 474 g

Features

1. PICMG1.3 and RoHS compliant
2. Supports LGA775 Intel® Core™2 Quad processors with a 1066 MHz (max.) FSB
3. Four 240-pin 2 GB (max.) 800 MHz, 667 MHz or 533 MHz dual-channel DDR2 SDRAM DIMM supported (system max. 8 GB)
4. High performance Gigabit Ethernet
5. Six 3.0 Gbps SATA II with Intel Matrix Storage Manager support

Packing List

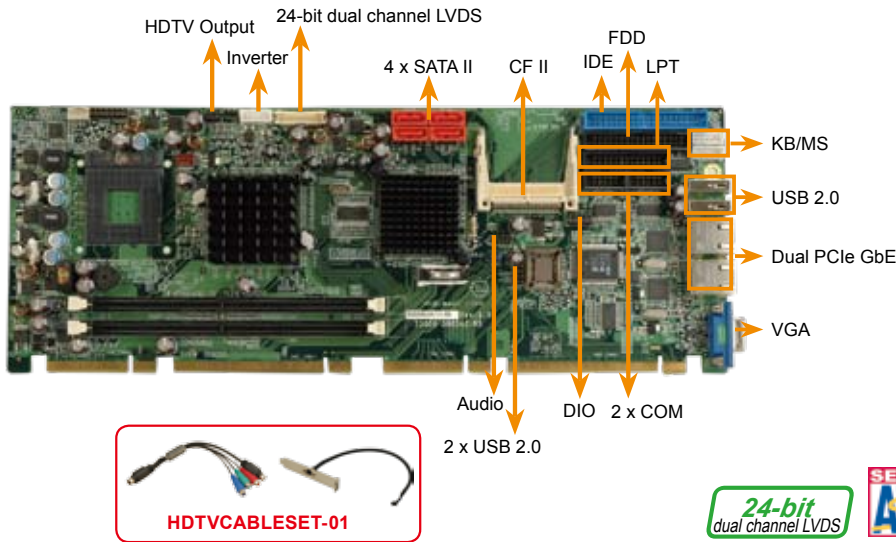
1 x PCIE-9650 Single board computer
1 x Mini Jumper pack
6 x SATA cable (P/N: 32000-0628000-RS)
3 x SATA power cable (P/N: 32100-088600-RS)
1 x Dual RS-232 cable (P/N: 19800-000051-RS)
1 x USB cable (P/N: CB-USB02-RS)
1 x Utility CD
1 x QIG

Ordering Information

Part No.	Description
PCIE-9650-R11	PICMG 1.3 LGA775 Intel® Core™2 Quad CPU Card with VGA, Dual PCI-E GbE, SATA II and USB 2.0
AC-KIT883HD-R11	7.1 Channel HD Audio kit with Realtek ALC883 support dual audio streams
CB-USB14-RS	4 ports USB cable
CF-520-RS	High Performance CPU Cooler (115 mm x 115 mm x 67 mm, 115W)
CF-775A-RS	High Performance CPU Cooler (92 mm x 92 mm x 73 mm, 130W)
SDVO-100VGA-R10	PCIe x16 VGA Output SDVO card supports dual display (IEI CPU board only)
SDVO-100DVI-R10	PCIe x16 DVI Output SDVO card supports dual display (IEI CPU board only)
19800-000066-RS	KB/MS cable with Bracket

PCIE-9452-R12

Full-size PICMG 1.3 CPU card supports Socket M Intel® Core™2 Duo processors and comes with VGA, dual PCIe GbE, SATA II and USB 2.0



Intel® Matrix Storage Manager

Dual DDR2
667

FSB 667

Socket M

24-bit
dual channel LVDS

SERIAL
ATA

PCI
EXPRESS

HI-SPEED
USB

Gigabit
Ethernet
PCIe

Specifications

- ◆ CPU
Socket M Intel® Core™2 Duo, Core™ Duo, Core™ Solo and Celeron® M Mobile processors with a 533 MHz or 667 MHz FSB
- ◆ System Chipset
Intel® 945GME + ICH7R
- ◆ BIOS
AMI Flash BIOS
- ◆ System Memory
Two 240-pin 2 GB (max.) 667 MHz, 533 MHz or 400 MHz dual-channel DDR2 SDRAM DIMM supported (system max. 4 GB)
- ◆ Ethernet
Dual Broadcom BCM5787M PCIe GbE controllers
- ◆ I/O Interface
2 x RS-232
1 x LPT
8 x USB 2.0
(Two on the bracket, two on-board and four on the backplane)
4 x SATA II with Intel RAID 0, 1, 5 and 10
1 x IDE
1 x FDD
1 x Keyboard
1 x Mouse
- ◆ Digital I/O
8-bit digital I/O, 4-bit input/ 4-bit output
- ◆ Infrared connector
1 x Infrared by pin header
- ◆ Super I/O
ITE IT8712F
- ◆ Display Interface
VGA and 18/24-bit dual channel LVDS integrated in Intel® 945GME
Support HDTV resolution up to 1080i by component interface
- ◆ Audio
5.1 channel AC'97 audio kit with Realtek ALC655 codec
7.1 channel HD audio kit with Realtek ALC883 support dual audio streams
- ◆ SSD
CF Type II
- ◆ Watchdog Timer
Software programmable supports 1 ~255 sec. System reset
- ◆ Power Supply
ATX Power
- ◆ Power consumption
5 V @ 4.14 A, 12 V @ 2.9 A, 3.3 V @ 0.72A running a 2.06 GHz Intel® Core™2 Duo T7200 processor with a 667 MHz FSB and 1 GB of 667 MHz DDR2 SDRAM
- ◆ Temperature
operation: 0°C ~ 60°C (32 ~ 140°F)
- ◆ Humidity
operation: 5% ~95% non-condensing
- ◆ Dimensions
338 mm x 126 mm
- ◆ Weight
GW: 1100 g / NW: 380 g

Features

1. PICMG1.3 and RoHS compliant
2. Supports Socket M Intel® Core™2 Duo processors with a 667 MHz FSB
3. Two 240-pin 2 GB (max.) 667 MHz, 533 MHz or 400 MHz dual-channel DDR2 SDRAM DIMM supported (system max. 4 GB)
4. Two high-performance PCIe GbE controllers
5. Four 3.0 Gbps SATA II with Intel® Matrix Storage Manager supp

Packing List

1 x PCIE-9452 single board computer
1 x Mini Jumper pack
1 x ATA 66/100 flat cable (P/N: 32200-000052-RS)
4 x SATA cable (P/N: 32000-0628000-RS)
2 x SATA Power cable (P/N: 32100-088600-RS)
1 x Dual RS-232 cable (P/N: 19800-000051-RS)
1 x USB cable (P/N: CB-USB02-RS)
1 x Utility CD
1 x QIG

Ordering Information

Part No.	Description
PCIE-9452-R12	PICMG 1.3 Socket M Intel® Core™2 Duo CPU Card with VGA, dual PCIe GbE, SATA II and USB 2.0
AC-KIT883HD-R10	7.1 Channel HD audio kit with Realtek ALC883 support dual audio streams
AC-KIT08R-R10	5.1 Channel AC'97 audio kit with Realtek ALC655
CF-479B-RS	CPU cooler
19800-000049-RS	LPT cable
32200-000017-RS	FDD cable
19800-000066-RS	KB/MS cable with bracket
HDTVCABLESET-01	HDTV Cable Set with S-Video/ Composite/ Component Interface

1
Application
Server
Platform

2
Single
Board
Computer

3
IBX Series
POS PC

4
AFOLUX
POS
Panel PC

5
Video
Capture
Card

6
KAMIO
RISC

7
IOVU
Open HMI

8
VITO
Universal
Controller

9
DINO
BLADE

10
LCD
Product
Series

11
Embedded
System

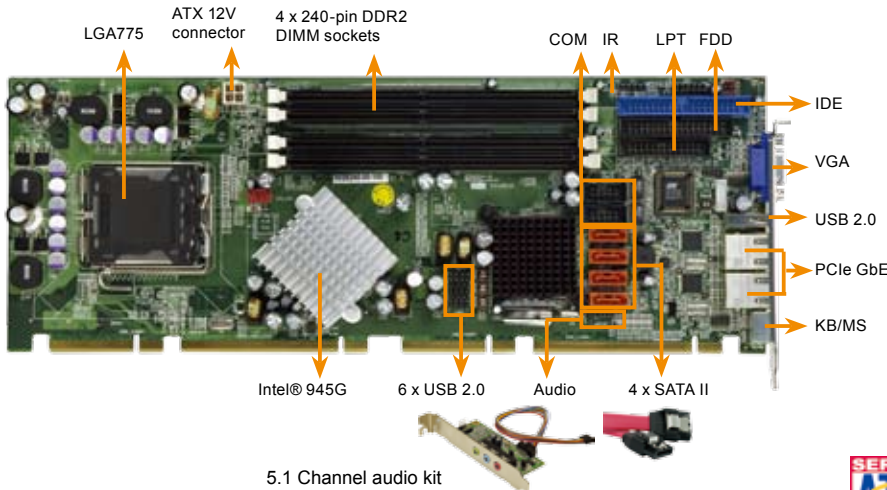
12
Industrial
Computer
Chassis

13
Power
Supply

14
Peripherals

PCIE-9450-R30

Full-size PICMG 1.3 CPU card supports LGA 775 Intel® Core 2 Duo™, Pentium® D, Pentium® 4 and Celeron® D processors and comes with VGA, dual PCIe GbE, SATA II and USB 2.0



Intel® Matrix Storage Manager

Dual DDR2
667

FSB**1066**



Specifications

- ◆ CPU
LGA 775 Intel® Core™2 Duo, Pentium® 4, Pentium® D and Celeron® D processors with a 533 MHz, 800 MHz or 1066 MHz FSB
- ◆ System Chipset
Intel® 945G+ ICH7R
- ◆ BIOS
AMI Flash BIOS
- ◆ System Memory
Four 240-pin 1 GB (max.) 667 MHz, 533 MHz or 400 MHz dual-channel DDR2 SDRAM DIMM supported (system max. 4 GB)
- ◆ Ethernet
Dual Broadcom BCM5787M PCIe GbE controllers
- ◆ I/O Interface
 - 2 x RS-232
 - 1 x LPT
 - 7 x USB 2.0
(One on the bracket, two on-board and four on the backplane)
 - 4 x SATA II, with RAID 0,1,5 and 10
 - 1 x IDE
 - 1 x FDD
 - 1 x PS/2 for keyboard and mouse
 - 1 x TPM
- ◆ Digital I/O
8-bit digital I/O, 4-bit input/ 4-bit output
- ◆ Infrared Connector
1 x Infrared by pin header
- ◆ Audio
5.1 channel AC'97 audio kit with Realtek ALC655 codec
7.1 Channel HD audio kit with Realtek ALC883
- ◆ Display
VGA Integrated in Intel® 945G
- ◆ Watchdog Timer
Software programmable supports 1~255 sec. system reset
- ◆ Power Supply
4-pin ATX 12V, 24-pin ATX Power on PICMG1.3 backplane
- ◆ Power Consumption
12 V @ 9 A, 5 V @ 2.6 A, 3.3 V @ 6.3 A, 5 Vsb @ 0.93 A, -12 V @ 0.1 A running a 3.73 GHz Intel® Pentium® D processor with 4 GB of 667 MHz DDR2 SDRAM
- ◆ Temperature
operation: 0°C~ 60°C (32°F~ 140°F)
- ◆ Humidity
operation: 5% ~ 95% non-condensing
- ◆ Dimensions
338 mm x 126 mm
- ◆ Weight
GW: 1.2 Kg

Features

1. PICMG 1.3 and RoHS compliant
2. Supports LGA775 Intel® Core™2 Duo, Pentium® 4, Pentium® D and Celeron® D processors with a 1066 MHz (maximum) FSB
3. Four 240-pin 1 GB (max.) 667 MHz, 533 MHz or 400 MHz dual-channel DDR2 SDRAM DIMM supported (system max. 4 GB)
4. Two high-performance PCIe GbE controllers
5. Four 3.0 Gbps SATA II connectors and seven USB 2.0 interfaces
6. Supports one PCIe x16 graphics card, four PCIe x1 expansion cards and four PCI expansion cards

Packing List

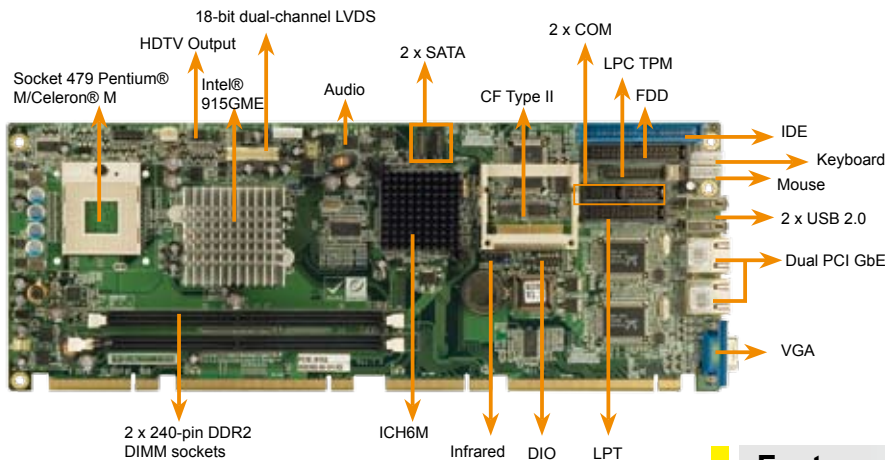
1 x PCIE-9450 single board computer
1 x Mini jumper pack
1 x ATA 66/100 flat cable (P/N: 32200-000052-RS)
4 x SATA cable (P/N: 32000-062800-RS)
2 x SATA power cable (P/N: 32100-088600-RS)
1 x KB/MS Y-cable (P/N: 32000-000138-RS)
1 x Dual RS-232 cable:(P/N: 19800-000051-RS)
1 x USB cable (P/N: CB-USB02-RS)
1 x Utility CD
1 x QIG

Ordering Information

Part No.	Description
PCIE-9450-R30	PICMG 1.3 LGA 775 1066 MHz, 800 MHz or 533 MHz FSB CPU Card with VGA, PCIe GbE, SATA II-300 and USB 2.0
AC-KIT08R-R10	5.1 Channel AC'97 audio kit with Realtek ALC655
AC-KIT883HD-R10	7.1 Channel HD audio kit with Realtek ALC883 supports dual audio streams
CF-520-RS	CPU cooler
CF-775A-RS	CPU cooler
SDVO-100VGA-R10	PCIe x16 VGA Output SDVO Card supports dual display (IEI CPU board only)
SDVO-100DVI-R10	PCIe x16 DVI Output SDVO Card supports dual display (IEI CPU board only)
32200-000017-RS	FDD cable
19800-000049-RS	LPT cable

PCIE-9152

Full-size PICMG 1.3 CPU card supports Socket 479 Intel® Pentium® M and Celeron® M processors and comes with VGA, dual PCI GbE, SATA and USB 2.0



Option1: On board ULV Celeron® M 600MHz with 512K L2 cache
Option2: On board ULV Celeron® M 1.0GHz with 0K L2 cache



TPM 1.2 Support

Dual DDR2
533

FSB 533



1

Application
Server
Platform

2

Single
Board
Computer

3

IBX Series
POS PC

4

AFOLUX
POS
Panel PC

5

Video
Capture
Card

6

KAMIO
RISC

7

IOVU
Open HMI

8

VITO
Universal
Controller

9

DINO
BLADE

10

LCD
Product
Series

11

Embedded
System

12

Industrial
Computer
Chassis

13

Power
Supply

14

Peripherals

Specifications

- ◆ CPU
Socket 479 Intel® Pentium® M and Celeron® M processors with a 400 MHz or 533 MHz FSB
- ◆ System Chipset
Intel® 915GM + ICH6M
- ◆ BIOS
AMI Flash BIOS
- ◆ System Memory
Two 240-pin 1 GB (max.) 667 MHz, 533 MHz or 400 MHz dual-channel DDR2 SDRAM DIMM supported (system max. 2 GB)
- ◆ Ethernet
Dual Realtek RTL8110SC PCI GbE controllers
- ◆ I/O Interface
2x RS-232
1 x LPT
6 x USB 2.0
(Two on the bracket and four on the backplane)
2 x SATA
1 x IDE
1 x FDD
1 x Keyboard
1 x Mouse
1 x TPM
- ◆ Digital I/O
8-bit digital I/O, 4-bit input/ 4-bit output
- ◆ Infrared connector
1 x Infrared by pin header
- ◆ Super I/O
ITE IT8712F
- ◆ Display Interface
VGA Integrated in Intel 915GM
18-bit dual-channel LVDS
Support HDTV resolution up to 1080i by component interface
- ◆ Audio
5.1 Channel AC'97 audio kit with Realtek ALC655 codec
7.1 Channel HD audio kit with Realtek ALC883 support dual audio streams
- ◆ SSD
CF Type II
- ◆ Watchdog Timer
Software programmable supports 1 ~255 sec. System reset
- ◆ Power Supply
ATX Power
- ◆ Power consumption
5 V @ 1.89 A, 12 V @ 1.75 A, 3.3 V @ 3.64 A running a 2.1 GHz Intel® Pentium® M processor with 512 MB of PC4300 CL4 RAM
- ◆ Temperature
operation: 0°C ~ 60°C (32 ~ 140°F)
- ◆ Humidity
operation: 5% ~95 non-condensing
- ◆ Dimensions
338 mm x 126 mm
- ◆ Weight
GW: 1100 g / NW: 373 g

Features

1. PICMG 1.3 and RoHS RoHS compliant
2. Supports Socket 479 Intel® Pentium® M and Celeron® M processors with a 400 MHz or a 533 MHz FSB
3. Two 240-pin 1 GB (max.) 667 MHz, 533 MHz or 400 MHz dual-channel DDR2 SDRAM DIMM supported (system max. 2 GB)
4. TPM V1.2 hardware security function supported
5. Dual PCI GbE controllers
6. Two SATA connectors and six USB 2.0 interfaces

Packing List

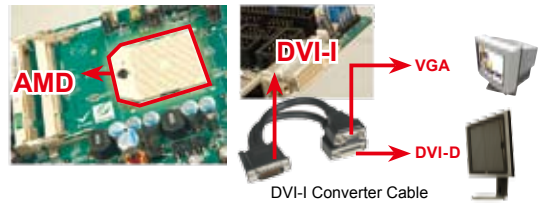
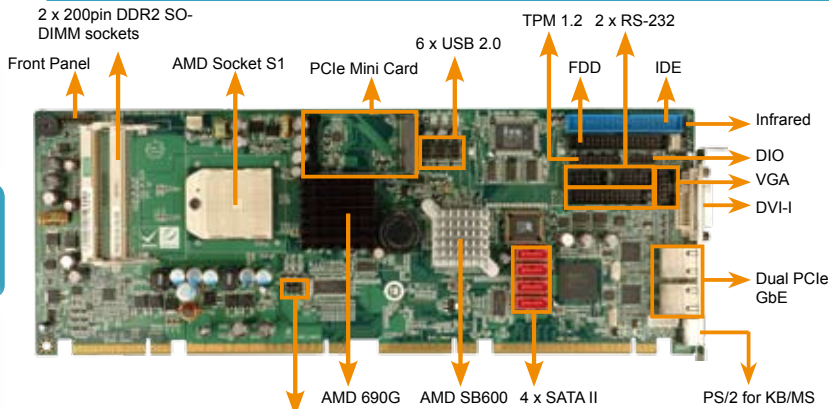
1 x PCIE-9152 Single board computer
1 x Mini Jumper pack
1 x ATA 66/100 flat cable (P/N: 32200-000052-RS)
2 x SATA cable (P/N: 32000-0628000-RS)
1 x SATA Power cable (P/N: 32100-088600-RS)
1 x Dual RS-232 cable (P/N: 19800-000051-RS)
1 x Utility CD
1 x QIG

Ordering Information

Part No.	Description
PCIE-9152-R10	PICMG 1.3 Socket 479 Pentium® M/Celeron® M CPU Card with VGA, Dual PCI GbE, SATA and USB 2.0
PCIE-9152-600-R10	PICMG 1.3 On-board Celeron® M 600MHz 512K Cache Processor with VGA, Dual PCI GbE, SATA and USB 2.0
PCIE-9152-1GZ-R10	PICMG 1.3 On-board Celeron® M 1.0GHz Zero Cache Processor with VGA, Dual PCI GbE, SATA and USB 2.0
AC-KIT883HD-R10	7.1 Channel HD audio kit with Realtek ALC883 support dual audio streams
AC-KIT08R-R10	5.1 Channel AC'97 audio kit with Realtek ALC655
32200-000017-RS	FDD cable
19800-000049-RS	LPT cable
CF-479B-RS	CPU cooler
TPM-WI01-R10	20-pin Winbond TPM Module, S/W Management Tool
TPM-IN01-R10	20-pin Infineon TPM Module, S/W Management Tool
19800-000066-RS	KB/MS cable with bracket
HDTV CABLE SET-01	HDTV Cable Set with S-Video/ Composite/ Component Interface

PCIE-690S1

Full-size PICMG 1.3 CPU card supports Socket S1 AMD processors with HyperTransport™ Technology and comes with AMD 690G and AMD SB600 chipsets, multi-display interfaces, four SATA II connectors with RAID functions, PCIe Mini Card Slot and Dual PCIe GbE



Instant Solutions of AMD Socket S1 CPU



Turion™ 64 x2
TL-62 (Dual Core 2.1GHz 31W)
TL-52 (Dual Core 1.6 GHz 31W)



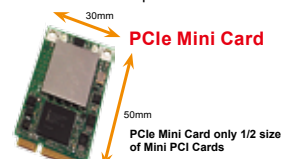
Mobile Sempron™
Mobile 3500+ (1.6GHz 25W)
Mobile 2100+ (1.0GHz 8W)

Turion™ 64 x2 Features

- Dual core processing
- Power optimized HyperTransport™ technology for high speed I/O communication
- High-bandwidth, low-latency integrated memory controller
- Made for mobility with Power Now! and additional low voltage Deeper Sleep state reduces power consumption

Benefit

- Half the size of mini-PCI
- Higher bandwidth interface
- Rigid mechanical spec.



Features

- WMV9/MPEG-4/MPEG-2 Hare encode
- Supports max. Resolution of 2048 x 1536@32bpp
- VGA+ DVI/TV+DVI for Multi Displays Option
- Supports AVIVO Advanced Video Processing Technology
- Full DirectX 9.0 Supports/Vertex Shader2.0/Pixel Shader 2.0



50W TV/ HDTV-out (Support S-video, composite, component output)

CF-479B-RS (50mm x 50mm x 26mm)



Specifications

- ◆ CPU
Socket S1 AMD Turion™ 64 X2, Turion™ 64 and Mobile Sempron™ processors
- ◆ HyperTransport™ Technology
200 MHz, 400 MHz, 600 MHz or 800 MHz HyperTransport™ interface
- ◆ System Chipset
AMD® 690G + SB600
- ◆ BIOS
AMI
- ◆ System Memory
Two 200-pin 1 GB (max.) 667 MHz or 533 MHz dual-channel DDR2 SDRAM SO-DIMM supported (system max. 2 GB)
- ◆ Ethernet
Dual Broadcom BCM5787M PCIe GbE controllers
- ◆ IO Interface
2 x RS-232
1 x LPT
10 x USB 2.0 (Six on-board and four on the backplane)
4 x SATA II support RAID 0, 1, 0+1
1 x IDE
1 x FDD
1 x Keyboard and mouse (PS/2)
1 x Keyboard (on-board)
- ◆ Digital I/O
8-bit Digital I/O, 4-bit input / 4-bit output
- ◆ Infrared connector
1 x Infrared by pin header
- ◆ Audio
10-pin on-board header connects to the I/EI AC-KIT883HD 7.1 channel HD Audio kit
- ◆ Graphic
1. ATI Radeon Express 1250 graphic engine intergated in AMD 690G provides VGA/DVI-I/TV(S-Video, Composite, Component) interfaces
2. AVIVO provides advanced scaling, color correction of video playback processing, HW decoding(WMV9, MPEG2/MPEG4), 2D/3D H/W Accelerating
3. Supports max.1080i HDTV format of YPbPr component output and NTSC/PAL TV with S-Video/Composite output
- ◆ Dual Display Configurations
DVI-D + VGA
HDTV(Composite, S-Video, Component) + DVI
- ◆ Display Interfaces
VGA / DVI-I
HDTV-out (supports Max. 1080i HDTV resolution output)
- ◆ Expansion
1 x PCIe Mini Card Slot
- ◆ Watchdog Timer
Software Programmable supports 1~255sec. system reset
- ◆ Power Supply
ATX
- ◆ Power Consumption
3.3 V @ 0.77 A, 5 V @ 4.23 A, 5 Vsb @ 0.1 A, 12 V @ 2.53 A running 3DMark® 2001 SE 330BD with a 2 GHz AMD Turion™ 64 X2 TL-60 processor, 2 GB of 667 MHz DDR2 SDRAM and a 16x CD-RW/DVD-ROM
- ◆ Temperature
operation: 0°C ~ 60°C (32°F ~ 140°F)
- ◆ Humidity
operation: 5% ~95% non-condensing
- ◆ Dimensions
338 mm x 126 mm
- ◆ Weight: GW:1.1 Kg

Features

1. PICMG1.3 and RoHS compliant
2. Supports Socket S1 AMD Turion™ 64 X2 dual-core mobile technology and mobile AMD® Sempron™ processors
3. Built in AMD® 690G Top-grade Integrated Multi-Media Platform
4. Support DVI-D + VGA, (S-Video, Composite, Component) + DVI-D for Dual Display Configurations
5. Four SATA II connectors with RAID 0, 1 and 0+1 supported
6. Support Dual PCIe GbE
7. Support one PCIe Mini Card Slot for Expansion

Packing List

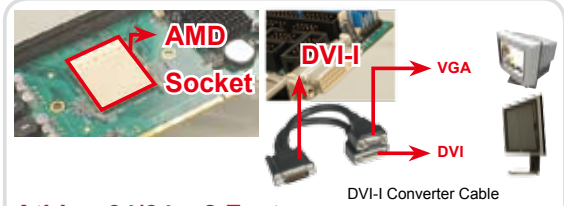
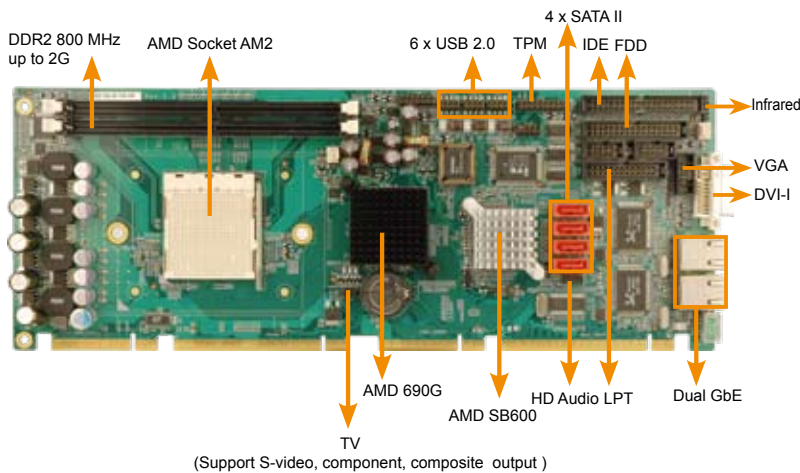
1 x PCIE-690S1 single board computer
1 x Mini jumper pack
1 x ATA66/100 flat cable (P/N: 32200-000052-RS)
4 x SATA cable (P/N: 32000062800-RS)
2 x SATA power cable (P/N: 32100-088600-RS)
1 x KB/MS Y-cable (P/N: 32000-000138-RS)
1 x Dual RS-232 cable (P/N:19800-000051-RS)
1 x USB cable (P/N: CB-USB02-RS)
1 x VGA D-Sub Cable with Bracket (P/N:19800-000025-RS)
1 x Utility CD
1 x QIG

Ordering Information

Part No.	Description
PCIE-690S1-R10	PICMG1.3 Full Size CPU Card with AMD® Socket S1 Processors, AMD 690G & SB600 Chipset, TV-out, DVI-I, VGA Multi-display Interfaces, 4 x SATA II with Raid Function, Dual PCIe GbE, PCIe Mini Card Slot
24150-000061-RS	AMD® Turion64 x 2 Mobile Dual Core TL-62, 2.1GHz, 512KB x 2, 800MHz, TDP 31W, Socket S1(638pins), RoHS
24105-000062-RS	Mobile AMD® Sempron Single Core 3700+, 2.0GHz, 512KB, 800MHz HyperTransport, TDP 25W, Socket S1(638pins), RoHS
24105-000045-RS	Mobile AMD Sempron Single-Core 3500+, 1.8GHz; 512KB, 800MHz, TDP 25W, Socket S1(638pins), RoHS
24105-000060-RS	Mobile AMD Sempron Single-Core 2100+, 1GHz; 256KB, 800MHz, TDP 8W, Socket S1(638pins), RoHS
TPM-IN01-R10	Infineon 20-pin Trusted Platform Module with S/W Management Tool
TPM-WI01-R10	Winbond 20-pin Trusted Platform Module with S/W Management Tool
AC-KIT883HD-R10	7.1 Channel HD audio kit with Realtek ALC883 supports dual audio streams
HDTVCABLESET-01	HDTV Cable Set with Composite / S-Video / Component Output
CF-479B-RS	High Performance CPU cooler (50mm x 50mm x 26mm, 50W)
32200-000017-RS	FDD cable
19800-000049-RS	LPT cable

PCIE-690AM2

Full-size PICMG 1.3 CPU card supports Socket AM2 AMD processors with HyperTransport™ Technology and comes with AMD 690G and SB600 chipsets, multi-display interfaces, dual display support, four 3.0 Gbps SATA II interfaces with RAID and dual PCI GbE LAN



Athlon 64/64 x 2 Features

- Single/Dual Core Processing
- AMD® 64 technology delivers leading-edge performance
- Direct connect architecture with direct access memory I/O and CPU core within processor
- Higher speed, power optimized up to 8GB/S I/O bandwidth Hyper Transport™ technology
- Integrate DDR2 memory controller

Instant Solutions of AMD Socket AM2 CPU



Specifications

- ◆ CPU
 - Socket AM2 AMD Opteron™, Athlon™ 64 X2, Athlon™ 64 and Sempron™ processors
- ◆ HyperTransport™ Technology
 - 200 MHz, 400 MHz, 600 MHz, 800 MHz or 1000 MHz HyperTransport™ Interface
- ◆ System Chipset
 - AMD 690G + SB600
- ◆ BIOS
 - AMI
- ◆ System Memory
 - Two 240-pin 1 GB (max.) 800 MHz, 667 MHz or 533 MHz dual-channel DDR2 SDRAM DIMM supported (system max. 2 GB)
- ◆ Ethernet
 - Dual PCI GbE Realtek RTL8110SC Chipsets
- ◆ IO Interface
 - 2 x RS-232
 - 1 x LPT
 - 10 x USB 2.0 (Six on-board and four on the backplane)
 - 4 x SATA II support RAID 0, 1, 0+1
 - 1 x IDE
 - 1 x FDD
 - 1 x Keyboard and mouse (PS/2)
- ◆ Digital I/O
 - 8-bit Digital I/O, 4-bit input / 4-bit output
- ◆ Infrared connector
 - 1 x Infrared by pin header
- ◆ Audio
 - 7.1 Channel HD audio kit with Realtek ALC883 supports dual audio streams
- ◆ Graphic
 - 1. ATI Radeon Express 1250 graphic engine Supports VGA/DVI-I/HDTV(S-Video, Composite, Component) interfaces
 - 2. AVIVO provides Supports H/W decoding(WMV9, MPEG2/MPEG4), 2D/3D H/W Accelerating for
 - 3. Supports max.1080i HDTV format of YPbPr componet output and NTSC/PAL TV with S-Video/Composite output
- ◆ Dual Display Configurations
 - DVI-D + VGA
 - HDTV(Composite, S-Video, Component) + DVI
- ◆ Display Interfaces
 - VGA / DVI-I
 - HDTV-out supports Max. 1080i HDTV resolution output
- ◆ Watchdog Timer
 - Software Programmable supports 1~255sec. system reset
- ◆ Power Supply
 - ATX
- ◆ Power Consumption
 - 3.3 V @ 0.45 A, 5 V @ 3.94 A, 5 Vsb @ 0.18 A, 12 V @ 7.96 A running 3DMark® 2001 SE 330 with a 2.8 GHz AMD Opteron™ processor and 1 GB of 667 MHz DDR2 SDRAM
- ◆ Temperature
 - Operation: 0°C ~ 60°C (32°F ~ 140°F)
- ◆ Humidity
 - Operation: 5% ~95% non-condensing
- ◆ Dimensions
 - 338 mm x 126 mm
- ◆ Weight
 - GW:1.2 Kg

Features

1. PICMG 1.3 and RoHS compliant
2. ECC DDR2 unbuffered memory support
3. Supports AMD® Athlon™ 64, AMD® Athlon™ 64 X2, AMD® Sempron™ Socket AM2 processors
4. Built in AMD 690G-Top-grade Choice of Integrated Multi-Media Platform
5. Support DVI-D + VGA, HDTV (S-Video, Composite, Component) + DVI-D for Dual Display Configurations
6. Four 3.0 Gbps SATA II interfaces with RAID 0, 1, and 0 + 1 functions

Packing List

1 x PCIE-690AM2 single board computer
1 x Mini jumper pack
1 x ATA66/100 flat cable (P/N: 32200-000052-RS)
4 x SATA cable (P/N: 32000062800-RS)
2 x SATA power cable (P/N: 32100-088600-RS)
1 x KB/MS Y-cable (P/N: 32000-000138-RS)
1 x Dual RS-232 cable (P/N:19800-000051-RS)
1 x USB cable (P/N: CB-USB02-RS)
1 x D-Sub VGA Cable with Bracket (P/N:19800-000025-RS)
1 x CPU retention Kit (P/N: 19Z00-000065-RS)
1 x Utility CD
1 x QIG

Ordering Information

Part No.	Description
PCIE-690AM2-R10	PICMG1.3 Full Size CPU Card with AMD® Socket AM2 Processor, AMD® 690G & SB600 Chipset, HDTV/TV-out, DVI-I, VGA Multi-display Interfaces, 4 x SATA II with Raid Function, Dual PCI GbE, HD Audio
AC-KIT883HD-R10	7.1 Channel HD audio kit with Realtek ALC883 supports dual audio streams
32200-000017-RS	FDD cable
19800-000049-RS	LPT cable
CF-519-RS	High Performance CPU cooler (92mm x 92mm x 67mm 115W)
HDTV CABLESET-01	HDTV Cable Set with Composite / S-Video / Component Output
TPM-IN01-R10	Infineon 20-pin Trusted Platform Module with S/W Management Tool
TPM-WI01-R10	Winbond 20-pin Trusted Platform Module with S/W Management Tool
24105-000029-RS	AMD Athlon 64 X2 Dual-Core 3400+ 1.8GHz; 512KBx2, 1000MHz, TDP 35W, Socket AM2 (940 pins), RoHS
24105-000052-RS	AMD Athlon 64 Single-Core 3000+ 1.8GHz; 512KBx2, 1000MHz, TDP 35W, Socket AM2 (940 pins), RoHS
CF-AM2-R10	High Performance CPU cooler (83mm x 69mm x 30mm 46W)

PICMG 1.3 Backplane

Selection Guide

PAC series wall-mount Chassis

4U Rack-mount Chassis

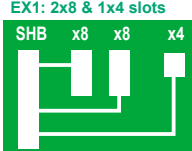

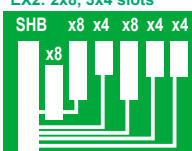


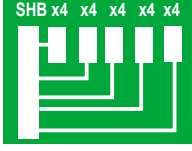

2U Rack-mount Chassis

Backplane		SPE-4S	SPE-6S	SPE-9S	SPXE-9S	SPXE-14S
Total	Slot	4	6	9	9	14
PCIe	x16					
	x8	2(x16connector)		1+(x16connector)	1+(x16connector)	1(x16connector)
	x4	1	5	3	2	
	x1					12
	PCI-X				2	
	PCI			3	2	
PSU TYPE		24+4-pin ATX	24+4-pin ATX	24+4-pin ATX	24+4-pin ATX	24+4-pin ATX
Chassis Option		PAC-106G PAC-107G PAC-1000G PACO-506F	PAC-106G PAC-107G PAC-1000G PACO-506F	PAC-125G	PAC-125G	RACK-305G RACK-360G RACK-814G RACK-3000G

IEI Server Grade Backplane Solution

Server grade backplane accommodates PCIe x8 and multiple PCIe x4 add-on cards. It is specially designed for extensive data transfer application such as data storage server or applications that require more than one PCIe x4 or four PCIe x1 cards. Given the multiple PCIe x4 and x1 supports, it provides a more cost effective solution for end-users by reducing the number of systems.

Server Grade Backplane

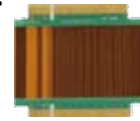
Example	Corresponding Model
EX1: 2x8 & 1x4 slots 	SPE-4S 
EX2: 2x8, 3x4 slots 	SPE-9S  SPXE-9S 
EX3: 5x4 slots 	SPE-6S 



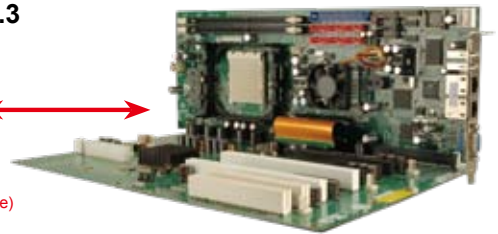
Server Grade	Integrated, small foot print enhances schematic stable and performance
AMD64	AMD Socket AM2 32/64-bit single/Dual Core CPU supported
ECC support	Reduce the latency of memory access by integrated memory controller
Expansion	28 Configurable PCIe lanes provide direct signal transferring path on the backplane w/o switch
Connectivity	Dual GbE support Load-balancing/TOE/ ASF2.0 for data distribution and remote management
Data Protection	6 SATA II with RAID Function supported

Earning extra PCIe x8 Bandwidth beyond 20 PCIe of PICMG1.3

IEI SPE / SPXE series backplanes
 SPE-4S
 SPE-6S
 SPE-9S
 SPXE-9S
 SPXE-14S



X8-PCIe-CB-R10 FFC(Flexible Flat Cable)



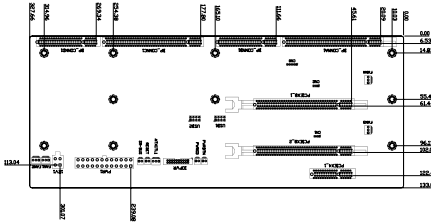
Now earning more PCIE Bandwidth and Flexible PCIe Configuration than Standard PICMG1.3 Via SPCIE-3600AM2

PCIe Slots Available (Non -switch)	SPCIE-3600AM2							
	Type	A	B	C	D	E	F	
	x16	1	1	1	-	-	-	
	x8	1	1	-	3	2	1	
	x4	1	-	2	1	3	5	
x2	-	-	2	-	-	-		
x1	-	4	-	-	-	-		
Backplane Solution		IEI SPE/SPXE BP						
Option		To perform bandwidth of full 28 PCIe Lanes, external PCIe x8 converter Board(X8-PCIe-CB-R10) must be used. SPE-4S / SPE-6S is compliant for PICMG1.3 sever-grade SBC with 20 PCIe Lanes Supported						

System Solution for options

Backplane	Total Slot	PCIe						PSU Type	Chassis Option
		x16	x8	x4	x1	PCI-X	PCI		
SPE-4S	4	-	2 (x16 connector)	1	-	-	-	24+4-pin ATX	PAC-106G, PAC-107G, PAC-1000G, PACO-506F
SPE-6S	6	-	-	5	-	-	-	24+4-pin ATX	PAC-106G, PAC-107G, PAC-1000G, PACO-506F
SPE-9S	9	-	1+1 (x16 connector)	3	-	-	3	24+4-pin ATX	PAC-125G
SPXE-9S	9	-	1+1 (x16 connector)	2	-	2	2	24+4-pin ATX	PAC-125G
SPXE-14S	14	-	1 (x16 connector)	-	12	-	-	24+4-pin ATX	RACK-305G, RACK-360G, RACK-814G, RACK-3000G

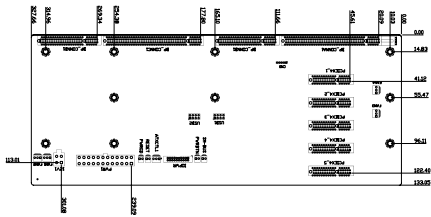
SPE-4S



Ordering Information

- SPE-4S-R10 4 Slot PICMG 1.3 Backplane with 2 PCIe x16 (x8 signal) and 1 PCIe x4 slots
- PAC-106G-R20 6-slot full-size industrial chassis
- PAC-107G-R20 6-slot full-size industrial chassis
- PAC-1000G 6-slot full-size industrial chassis
- PACO-506F 6-slot full-size industrial chassis

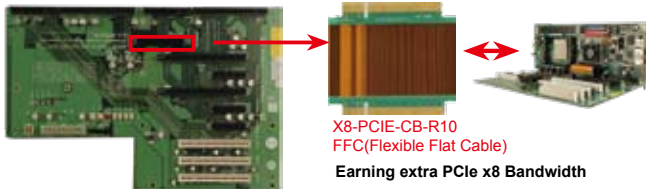
SPE-6S



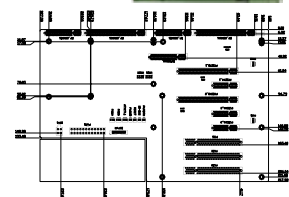
Ordering Information

- SPE-6S-R10 6 Slot PICMG 1.3 Backplane with 5 PCIe x4 slots
- PAC-106G-R20 6-slot full-size industrial chassis
- PAC-107G-R20 6-slot full-size industrial chassis
- PAC-1000G 6-slot full-size industrial chassis
- PACO-506F 6-slot full-size industrial chassis

SPE-9S



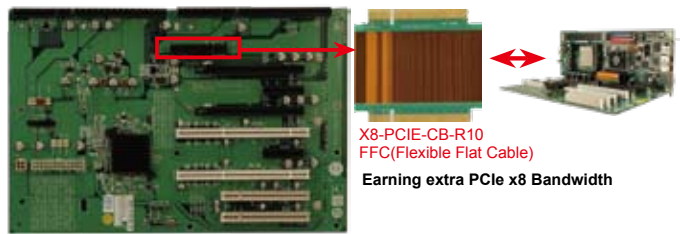
X8-PCIE-CB-R10
FFC(Flexible Flat Cable)
Earning extra PCIe x8 Bandwidth



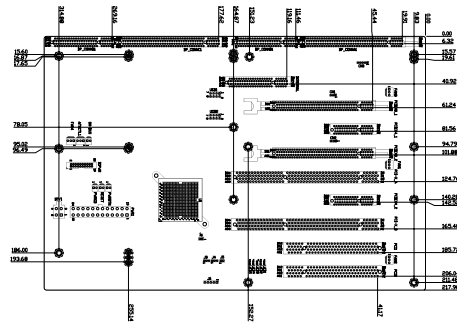
Ordering Information

- SPE-9S-R10 9 Slot PICMG 1.3 Backplane with 2 PCIe x16 (x8 signal) 3 PCIe x4, and 3 PCI
- PAC-125G-R20 10-slot full-size industrial chassis
- X8-PCIE-CB-R10 PCIe x8 Connection Board for SPCIE-3600AM2

SPXE-9S



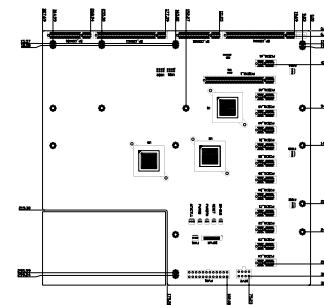
X8-PCIE-CB-R10
FFC(Flexible Flat Cable)
Earning extra PCIe x8 Bandwidth



Ordering Information

- SPXE-9S-R10 9 Slot PICMG 1.3 Backplane with 2 PCIe x16 (x8 signal) 2 PCIe x4, 2 PCI-X, and 2 PCI
- PAC-125G-R20 10-slot full-size industrial chassis
- X8-PCIE-CB-R10 PCIe x8 Connection Board for SPCIE-3600AM2

SPXE-14S



Ordering Information

- SPXE-14S-R10 14-Slot PICMG 1.3 Backplane with 1 PCIe x16 (x8 signal) and 12 PCIe x1
- RACK-305G-R20 4U rack-mount industrial chassis
- RACK-360G-R20 4U rack-mount industrial chassis
- RACK-814G-R20 4U rack-mount industrial chassis
- RACK-3000G-R20 4U rack-mount industrial chassis

1
Application
Server
Platform

2
Single
Board
Computer

3
IBX Series
POS PC

4
AFOLUX
POS
Panel PC

5
Video
Capture
Card

6
KAMIO
RISC

7
IOVU
Open HMI

8
VITO
Universal
Controller

9
DINO
BLADE

10
LCD
Product
Series

11
Embedded
System

12
Industrial
Computer
Chassis

13
Power
Supply

14
Peripherals

PICMG 1.3 Passive Backplane

Selection Guide

PAC series wall-mount Chassis

4U Rack-mount Chassis

2U Rack-mount Chassis

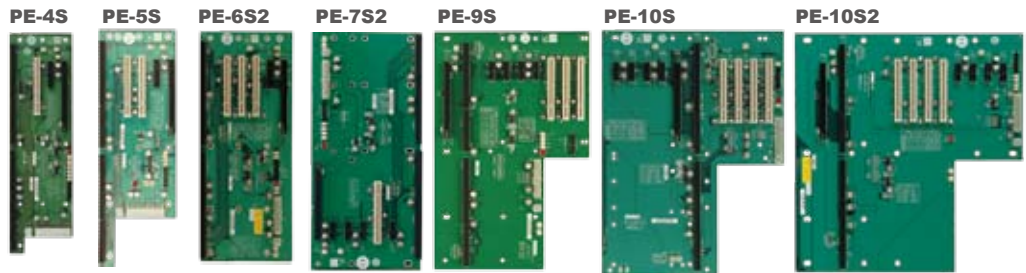
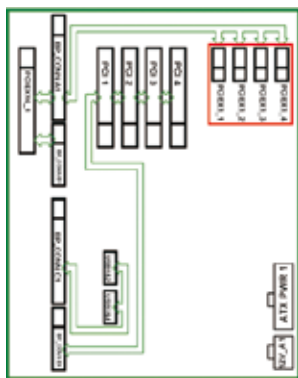
PICMG1.3 (PCIe+PCI)	Model	PE-4S	PE-4S2	PE-4S3	PE-5S	PE-5S2	PE-6S	PE-6S2	PE-6S3	PE-6SD	PE-6SD2
Total Slot		4	4	4	5	5	6	6	6	5	5
Expansion Slots	PCIe SLOTS	x16 *	1	1	1	1	1	1	1	1	1
		x4	1			1		1			
	PCI SLOTS	1	2	2	2	3	2	3	1	3	2
USB Connectors by Pin Header		4	4	4	4	4	4	4	4	4	4
PSU TYPE		24+4 PIN ATX	24+4 PIN ATX	24+4 PIN ATX	24+4 PIN ATX	24+4 PIN ATX	24+4 PIN ATX	24+4 PIN ATX	24+4 PIN ATX	24+4 PIN ATX	24+4 PIN ATX
Chassis		PAC-42GF-R20 PACO-504F	PAC-42GF-R20 PACO-504F	PAC-42GF-R20 PACO-504F	RACK-500G-R20	RACK-500G-R20	RACK-305G-R20 RACK-360G-R20 RACK-814G-R20 RACK-3000G-R20 RACK-1700G-R20 PAC-125G-R20	PAC-106G-R20 *1 PAC-107G-R20 *1 PAC-1000G-R20 PACO-506F	PAC-1000G-R20 PACO-506F	RACK-221G RACK-2100G	RACK-221G RACK-2100G
Note										2U Type	2U Type

PICMG1.3 (PCIe+PCI)	Model	PE-7S	PE-7S2	PE-8S	PE-9S	PE-10S	PE-10S2	PE-13SD	PE-16SD	PXE-13S	PXE-19S
Total Slot		7	7	8	9	10	10	13	16	13	19
Expansion Slots	PCIe SLOTS	x16 *	1	1	1	1	1	1/1	1/1/1/1	1	1
		x4						1/0	1/1/1/1		
	PCI SLOTS	2	4	3	4	4	4	0/4	0	3	1
USB Connectors by Pin Header		4	4	4	4	4	4	8	4/4/4/4	4	4
PSU TYPE		24+4 PIN ATX	24+4 PIN ATX	24+4 PIN ATX	24+4 PIN ATX	24+4 PIN ATX	24+4 PIN ATX	Dual 24+4 PIN ATX	Three 20+4 Pin ATX One 24+4-pin ATX	24+4 PIN ATX	24+4 PIN ATX
Chassis		PAC-1700G-R20	PAC-1700G-R20	PAC-125G-R20	N/A	RACK-305G-R20 RACK-360G-R20 RACK-814G-R20 RACK-3000G-R20	RACK-3000G-R20 RACK-305G-R20 RACK-360G-R20 RACK-814G-R20	RACK-3000G-R20 RACK-305G-R20 RACK-360G-R20 RACK-814G-R20	RACK-4000-R20	RACK-3000G-R20 RACK-305G-R20 RACK-360G-R20 RACK-814G-R20	RACK-3200G-R20 RACK-3035G-R20
Note								Dual System Backplane	Quad System Backplane	PCIe to PCI Bridge backplane	

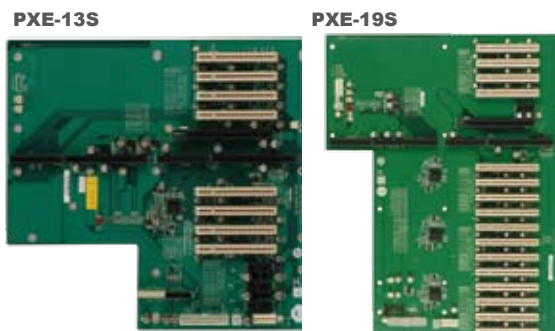
*1: when using a PCIe x16 add-on card, the length of the card must not exceed 167mm or 6.57inches.

IEI Graphic Grade Backplane Solution

Graphic centric backplane targets at applications which concerning system speed and performance. It has higher performance over cost ratio than previous PICMG1.0 solution.



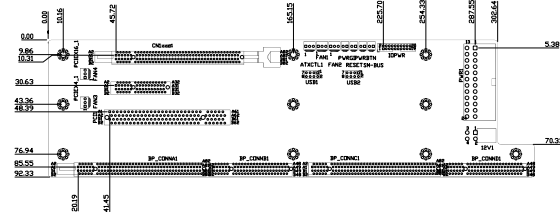
- 20 PCIe Lanes Total
- One PCIe x16 Slot
- Up to four PCIe x1 or One PCIe x4 Slot
- Up to four Local PCI Slots (w/o Bridge)



- 20 PCIe Lanes Total
- One PCIe x16 Slot
- Up to Four PCIe x1 Slots
- Up to 4 Local PCI Slots
- PCI Slots Expandable via PCIe to PCI Bridge

PE-4S-R40

Mounting holes compatible with PCI-4S

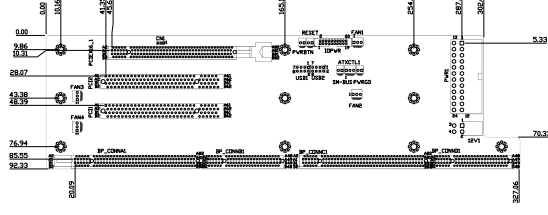


Ordering Information

PE-4S-R40	4-slot backplane with 1 PCIe x16 slot, 1 PCIe x4 slot and 1 PCI slot
PAC-42GF-R20	4-slot full-size industrial chassis
PACO-504F	4-slot full-size industrial chassis

PE-4S2-R40

Mounting holes compatible with PCI-4S

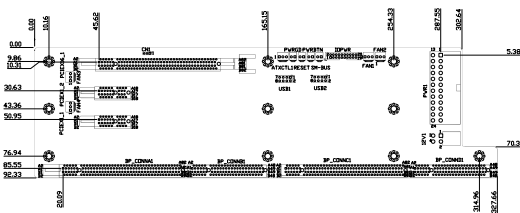


Ordering Information

PE-4S2-R40	4-slot backplane with 1 PCIe x16 slot and 2 PCI slots
PAC-42GF-R20	4-slot full-size industrial chassis
PACO-504F	4-slot full-size industrial chassis

PE-4S3-R40

Mounting holes compatible with PCI-4S

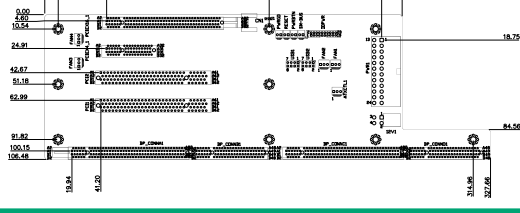


Ordering Information

PE-4S3-R40	4-slot backplane with 1 PCIe x16 slot and 2 PCIe x1 slots.
PAC-42GF-R20	4-slot full-size industrial chassis
PACO-504F	4-slot full-size industrial chassis

PE-5S-R40

Mounting holes compatible with PCI-5S

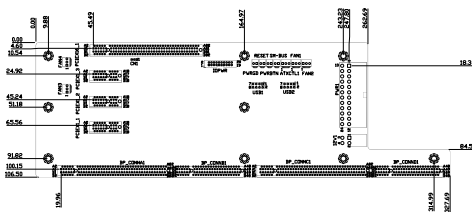


Ordering Information

PE-5S-R40	5-slot backplane with 1 PCIe x16 slot, 1 PCIe x4 slot and 2 PCI slots
RACK-500G-R20	5-slot full-size industrial chassis

PE-5S2-R40

Mounting holes compatible with PCI-5S

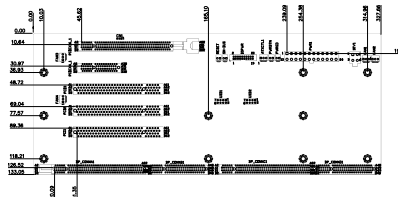


Ordering Information

PE-5S2-R40	5-slot backplane with 1 PCIe x16 slot and 3 PCIe x1 slots
RACK-500G-R20	5-slot full-size industrial chassis

PE-6S2-R40

Mounting holes compatible with PCI-6S



Ordering Information

PE-6S2-R40	6-slot backplane with 1 PCIe x16 slot, 1 PCIe x4 slot and 3 PCI slots
PAC-106G-R20 *1	6-slot full-size industrial chassis
PAC-107G-R20 *1	6-slot full-size industrial chassis
PAC-1000G-R20	6-slot full-size industrial chassis
PACO-506F	6-slot full-size industrial chassis

*1: when using a PCIe x16 add-on card, the length of the card must not exceed 167mm or 6.57inches.

1

Application Server Platform

2

Single Board Computer

3

IBX Series

POS PC

4

AFOLUX

POS Panel PC

5

Video Capture Card

6

KAMIO RISC

7

IOVU Open HMI

8

VITO Universal Controller

9

DINO BLADE

10

LCD Product Series

11

Embedded System

12

Industrial Computer Chassis

13

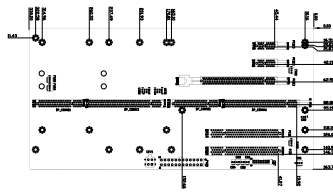
Power Supply

14

Peripherals

PE-6S-R40

Mounting holes compatible with PCI-7S



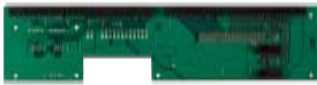
Ordering Information

PE-6S-R40	6-slot backplane with 1 PCIe x16 slot, 2 PCIe x1 slots and 2 PCI slots
RACK-305G-R20	4U rack-mount industrial chassis
RACK-360G-R20	4U rack-mount industrial chassis
RACK-814G-R20	4U rack-mount industrial chassis
RACK-3000G-R20	4U rack-mount industrial chassis
PAC-1700G-R20	7-slot full-size industrial chassis
PAC-125G-R20	10-slot full-size industrial chassis

PE-6SD-R40

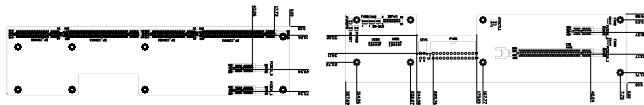
Mounting holes compatible with PCI-6SD

2U Type



Right side

Left side



Ordering Information

PE-6SD-R40	5-slot backplane with 1 PCIe x16 slot and 3 PCIe x1 slots
RACK-221G	6-slot full-size industrial chassis
RACK-2100G	6-slot full-size industrial chassis

PE-6SD2-R40

Mounting holes compatible with PCI-6SD

2U Type



Right side

Left side

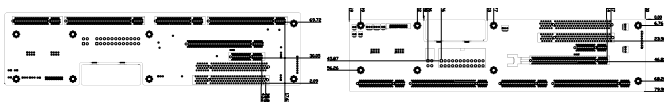


Ordering Information

PE-6SD2-R40	5-slot backplane with 1 PCIe x16 slot, 2 PCIe x1 slots and 1 PCI slot
RACK-221G	6-slot full-size industrial chassis
RACK-2100G	6-slot full-size industrial chassis

PE-6SD3-R40

Mounting holes compatible with PCI-6SD

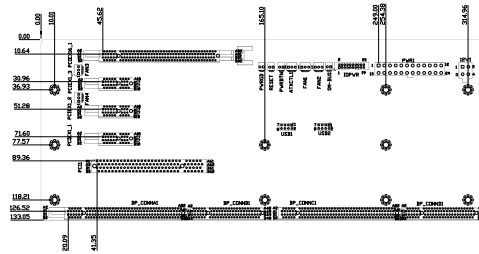


Ordering Information

PE-6SD3-R40	5-slot backplane with 1 PCIe x16 slot, 1 PCIe x4 slots and 2 PCI slots
RACK-221G	6-slot full-size industrial chassis
RACK-2100G	6-slot full-size industrial chassis

PE-6S3-R40

Mounting holes compatible with PCI-6S



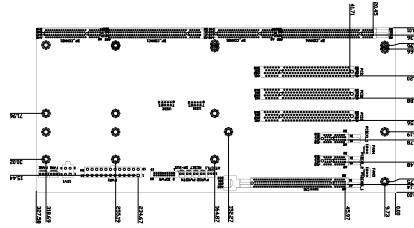
Ordering Information

PE-6S3-R40	6-slot backplane with 1 PCIe x16 slot, 3 PCIe x1 slots and 1 PCI slot
PAC-106G-R20	*1 6-slot full-size industrial chassis
PAC-107G-R20	*1 6-slot full-size industrial chassis
PAC-1000G	6-slot full-size industrial chassis
PACO-506F	6-slot full-size industrial chassis

*1: when using a PCIe x16 add-on card, the length of the card must not exceed 167mm or 6.57inches.

PE-7S-R40

Mounting holes compatible with PCI-7S

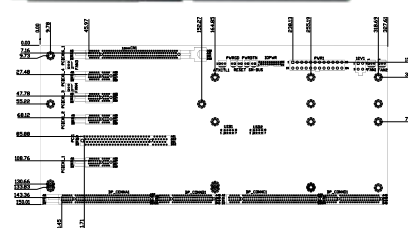


Ordering Information

PE-7S-R40	7-slot backplane with 1 PCIe x16 slot, 2 PCIe x1 slots and 3 PCI slots PCI slot.
PAC-1700G-R20	7-slot full-size industrial chassis

PE-7S2-R40

Mounting holes compatible with PCI-7S



Ordering Information

PE-7S2-R40	5-slot backplane with 1 PCIe x16 slot and 4 PCIe x1 slots and 1 PCI slot
PAC-1700G-R20	7-slot full-size industrial chassis

1 Application Server Platform

2 Single Board Computer

3 IBX Series POS PC

4 AFOLLUX POS Panel PC

5 Video Capture Card

6 KAMIO RISC

7 IOVU Open HMI

8 VITO Universal Controller

9 DINO BLADE

10 LCD Product Series

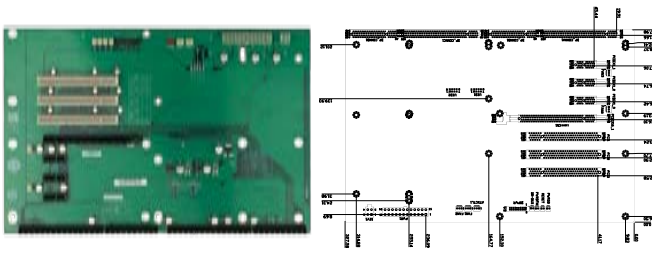
11 Embedded System

12 Industrial Computer Chassis

13 Power Supply

14 Peripherals

PE-8S-R40

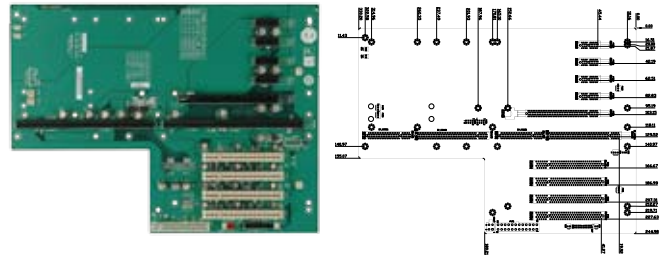


Ordering Information

PE-8S-R40 8-slot backplane with 1 PCIe x16 slots, 3 PCI x1 slots and 3 PCI slots
 PAC-125G-R20 10-slot full-size industrial chassis

PE-10S-R40

Mounting holes compatible with PCI-14S

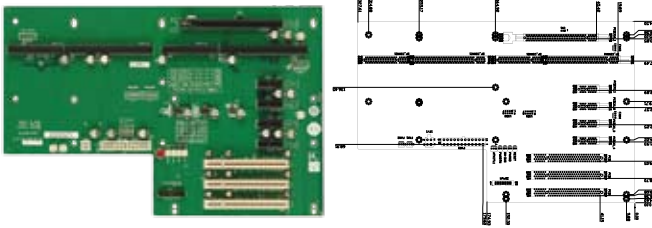


Ordering Information

PE-10S-R40 13-slot backplane with 2 PCIe x16 slots, 1 PCIe x4 slot, 4 PCI x1 slots and 4 PCI slots
 RACK-305G-R20 4U rack-mount industrial chassis
 RACK-360G-R20 4U rack-mount industrial chassis
 RACK-814G-R20 4U rack-mount industrial chassis
 RACK-3000G-R20 4U rack-mount industrial chassis

PE-9S-R40

Mounting holes compatible with PCI-10S2

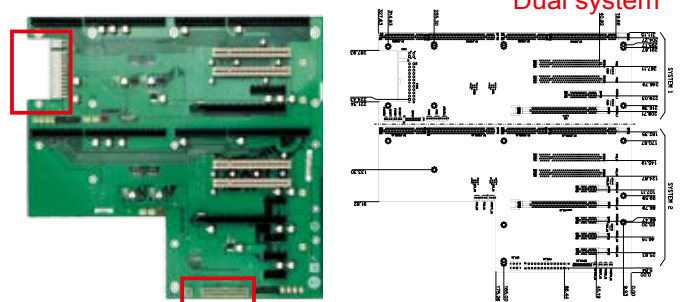


Ordering Information

PE-9S-R40 9-slot backplane with 1 PCIe x16 slot, 4 PCIe x1 slots and 3 PCI slots

PE-13SD-R40

Mounting holes compatible with PCI-14S



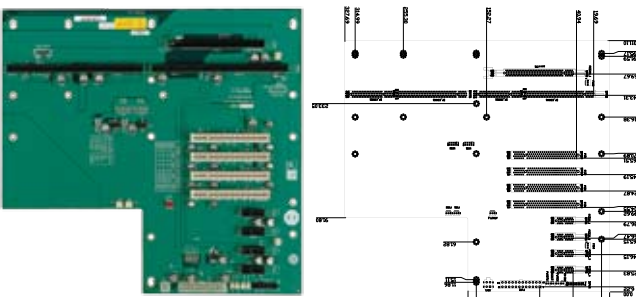
2 independent power resources

Ordering Information

PE-13SD-R40 13 Slots Backplane with 2 PCIe x 16 and 1 PCIe x 4 and 4 PCIe x 1 and 4 PCI slot.
 RACK-3000G-R20 14-slot full-size industrial chassis
 RACK-305G-R20 14-slot full-size industrial chassis
 RACK-360G-R20 14-slot full-size industrial chassis
 RACK-814G-R20 14-slot full-size industrial chassis

PE-10S2-R40

Mounting holes compatible with PCI-14S

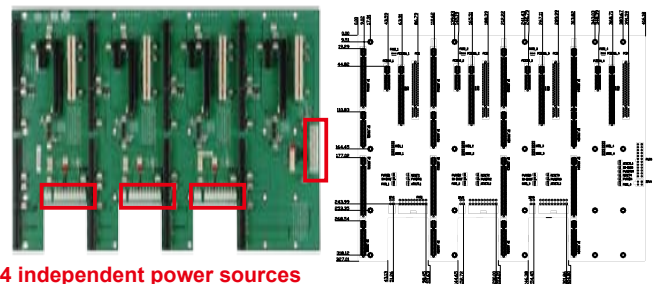


Ordering Information

PE-10S R40 10-slot backplane with 1 PCIe x16 slot, 1 PCIe x1 slot and 4 PCI slots
 RACK-3000G-R20 14-slot full-size industrial chassis
 RACK-305G-R20 14-slot full-size industrial chassis
 RACK-360G-R20 14-slot full-size industrial chassis
 RACK-814G-R20 14-slot full-size industrial chassis

PE-16SQ-R10

Mounting holes compatible with PCI-18QS



4 independent power sources

Ordering Information

PE-16SQ-R10 4-system backplane with each system having 1 PCIe x1 slot, PCIe x4 slot and 1 PCI slot
 RACK-4000-R20 4U 20-slot full-size industrial chassis

1 Application Server Platform

2 Single Board Computer

3 IBX Series POS PC

4 AFOLUX POS Panel PC

5 Video Capture Card

6 KAMIO RISC

7 IOVU Open HMI

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9 DINO BLADE

10 LCD Product Series

11 Embedded System

12 Industrial Computer Chassis

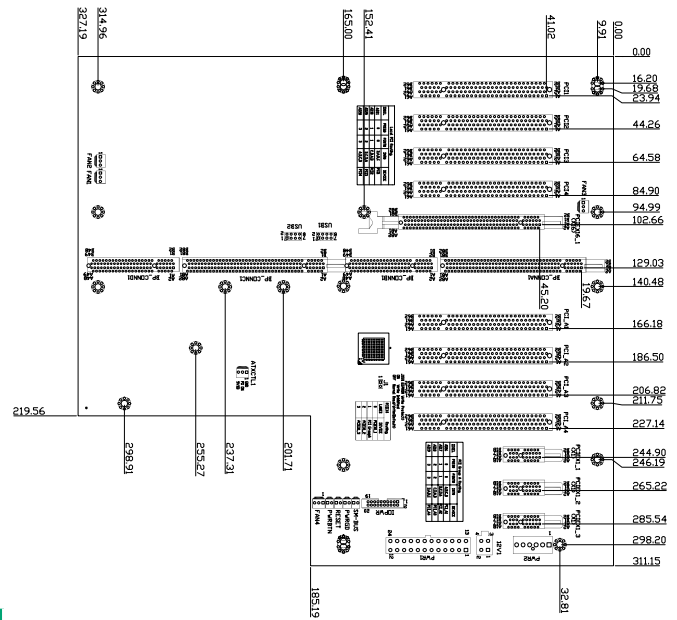
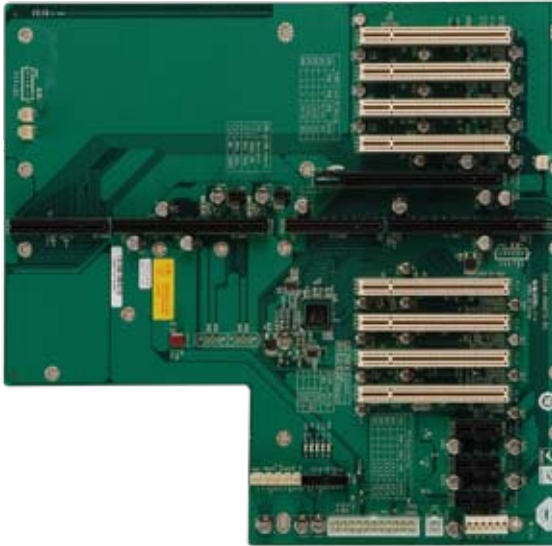
13 Power Supply

14 Peripherals

PXE-13S-R40

Mounting holes compatible with PCI-14S

(PCIe to PCI Bridge)

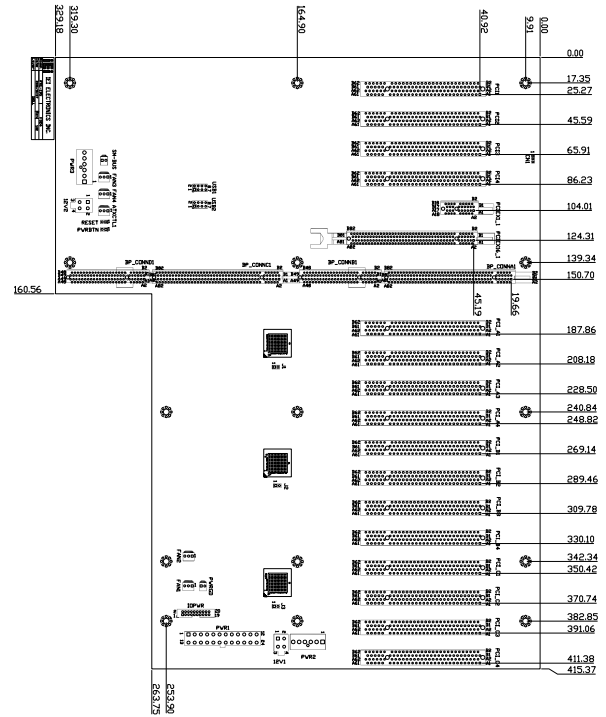
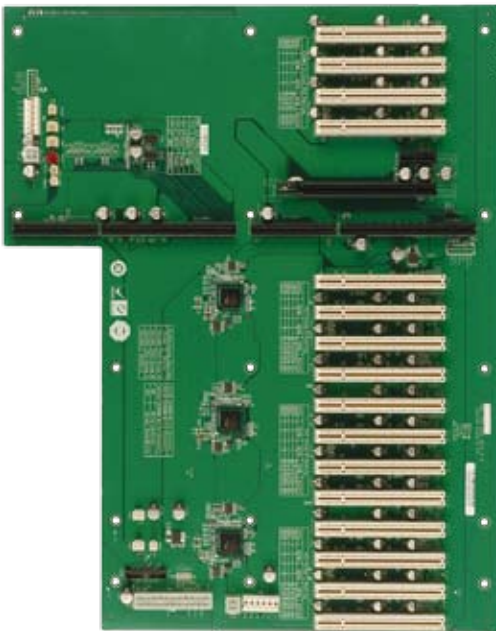


Ordering Information

PXE-13S-R40	13-slot backplane with 1 PCIe x16 slot, 3 PCIe x1 slots and 8 PCI slots
RACK-3000G-R20	14-slot full-size industrial chassis
RACK-305G-R20	14-slot full-size industrial chassis
RACK-360G-R20	14-slot full-size industrial chassis
RACK-814G-R20	14-slot full-size industrial chassis

PXE-19S-R40

Mounting holes compatible with PCI-19S



Ordering Information

PXE-19S-R40	19-slot backplane with 1 PCIe x16 slot, 1 PCIe x1 slot and 16 PCI slots
RACK-3200G-R20	4U 20-slot full-size industrial chassis
RACK-3035G-R20	7U 20-slot full-size industrial chassis

1 Application Server Platform

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13 Power Supply

14 Peripherals

Full Size PICMG 1.0 Selection Guide



Model Name	WSB-Q354	WSB-9454	WSB-9452	WSB-9154-R20
CPU Socket	LGA 775	LGA 775	Socket M	LGA 775
CPU Type	Intel® Core™2 Duo/Quad (Wolfdale/Yorkfield), Intel® 65nm Core™2 Duo/Quad (Conroe/kentsfield), Celeron®	Intel® Core™2 Duo, Pentium® D, Pentium® 4, and Celeron® D	Intel® Core™2 Duo, Core™ Duo, Core™ Solo and Celeron® M	3.8 GHz (max.) Cedar Mill Intel® Pentium® 4 and Celeron® D
FSB	1333/1066/800	1066 MHz, 800 MHz or 533 MHz	667 MHz or 533 MHz	533 MHz or 800 MHz
Chipset	Intel® Q35 + ICH9R	Intel® 945G + ICH7	Intel® 945GM + ICH7M	Intel® 915GV + ICH6
Memory	4 x 240-pin DIMM sockets dual channel DDRII 800/667 MHz SDRAM up to 8GB	4 x 240-pin, 2 GB (max.) 400 MHz, 533 MHz or 667 MHz dual-channel DDR2 SDRAM DIMM (system max. 8 GB)	2 x 240-pin, 2 GB (max.) 400 MHz, 533 MHz or 667 MHz dual-channel DDR2 SDRAM DIMM (system max. 4 GB)	4 x 240-pin, 1 GB (max.) 400 MHz or 533 MHz dual-channel DDR2 SDRAM DIMM (system max. 4 GB)
Display Interface	Integrated in Intel® Q35 (GMA3000) supports analog CRT	VGA integrated in the Intel® 945G DVI (WSB-9454DVI only by IO-Kit-001)	VGA Integrated in the Intel® 945GM DVI (WSB-9452DVI only by IO-Kit-001) 18-bit dual channel LVDS HDTV-out support	VGA integrated in the Intel® 915GV DVI (WSB-9154DVI only by IO-Kit-001)
Ethernet	Dual Broadcom BCM5787M GbE	Dual Broadcom BCM5787M PCIe GbE controllers with ASF2.0 remote control support	Dual Broadcom BCM5787M PCIe GbE controllers	Dual Broadcom BCM5787M PCIe GbE controllers
I/O Interface	2 x RS-232 7 x USB 2.0 1 x LPT 1 x Infrared 1 x Keyboard and mouse (PS/2) 1 x 5-pin on-board header for keyboard and mouse 1 x TPM	2 x RS-232 7 x USB 2.0 1 x LPT 1 x Infrared 1 x Keyboard and mouse (PS/2)	2 x RS-232 7 x USB 2.0 1 x LPT 1 x Infrared 1 x Keyboard and mouse (PS/2) 1 x TPM	2 x RS-232 7 x USB 2.0 1 x LPT 1 x Infrared 1 x Keyboard and mouse (PS/2)
Drive Interface	6 x SATA II support RAID 0, 1, 10, 5 1 x IDE 1 x FDD	4 x SATA II 1 x IDE 1 x FDD	1 x IDE (2 x IDE for WSB-9452S/9452SDVI) 2 x SATA (4 x SATA for WSB-9452S/9452SDVI) 1 x FDD	4 x SATA 1 x IDE 1 x FDD
Audio	10-pin on-board header supports 7.1 channel HD Audio by IEI AC-KIT-883HD	5.1 channel audio kit with Realtek ALC655 AC'97 codec 10-pin on-board header supports 7.1 channel HD Audio by IEI AC-KIT-883HD	5.1 channel audio kit with Realtek ALC655 AC'97 codec 10-pin on-board header supports 7.1 channel HD Audio by IEI AC-KIT-883HD	5.1 channel audio kit with Realtek ALC655 AC'97 codec 10-pin on-board header supports 7.1 channel HD Audio by IEI AC-KIT-883HD
SSD	N/A	N/A	N/A	N/A
Digital I/O	8-bit digital I/O (4-bit input/4-bit output)	8-bit digital I/O (4-bit input/4-bit output)	8-bit digital I/O (4-bit input/4-bit output)	8-bit digital I/O (4-bit input/4-bit output)
Power consumption	3.3 V @ 0.03 A, 5 V @ 0.82 A, 5 Vsb @ 0.11 A, 12V @ 0.1 A, Vcore @ 2.29A (Intel® Core™2 Duo E8400, DDR2 800MHz 2GB x 4) 3D Mark 2001SE	5 V @ 6.75 A, 12 V @ 7.24 A running 3D Mark with a 3 GHz Intel® Pentium® 4 processor and 4 GB of 533 MHz DDR2 SDRAM	5 V @ 4.15 A, 12 V @ 1.29 A running a 2.33 GHz Yonah core Intel® Core™ Duo T2700 processor and 2 GB of 533 MHz DDR2 SDRAM	12 V @ 2.08 A, 5 V @ 3.6 A, -12 V @ 0.1 A, 5 Vsb @ 0.93 A running a 2 GHz Intel® Pentium® M processor with a 533 MHz FSB and 512 MB of 400 MHz DDR SDRAM
Watchdog Timer	Software Programmable supports 1~255sec. system reset	Software programmable and supports 1~255 sec. system reset	Software programmable and supports 1~255 sec. system reset	Software programmable and supports 1~255 sec. system reset
Operating Environment	Tempereration Range 0°C ~ 60°C (32°F ~ 140°F)	Tempereration Range 0°C ~ 60°C (32 ~ 140°F) Relative Humidity 5% ~ 95% non-condensing	Tempereration Range 0°C ~ 60°C (32 ~ 140°F) Relative Humidity 5% ~ 95% non-condensing	Tempereration Range 0°C ~ 60°C (32 ~ 140°F) Relative Humidity 5% ~ 95% non-condensing
Expansion Slot	N/A	N/A	1 x PCIe mini card slot	N/A
CPU cooler	CF-775A-RS / CF-520-RS	CF-775A-RS / CF-520-RS	CF-479B-RS	CF-775A-RS / CF-520-RS

1
Application
Server
Platform2
Single
Board
Computer3
IBX Series
POS PC4
AFOLUX
POS
Panel PC5
Video
Capture
Card6
KAMIO
RISC7
IOVU
Open HMI8
VITO
Universal
Controller9
DINO
BLADE10
LCD
Product
Series11
Embedded
System12
Industrial
Computer
Chassis13
Power
Supply14
Peripherals

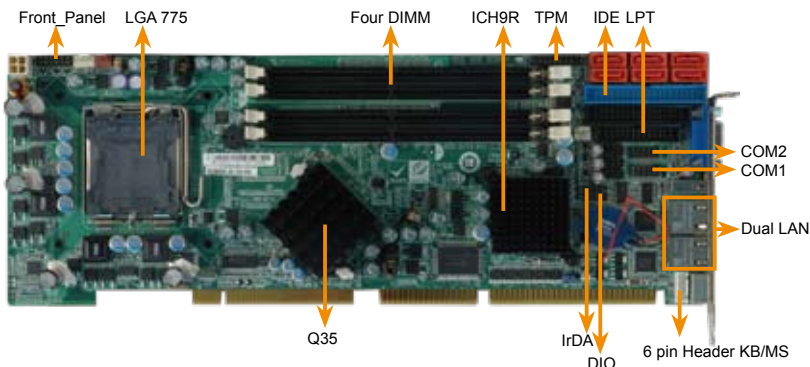
Full Size PICMG 1.0 Selection Guide



Model Name	WSB-9152-R21	WSB-9150-R20	ROCKY-4786EVG-RS-R40	ROCKY-3786EVGU2-RS-R40
CPU Socket	Socket 479	Socket 478	Socket 478	Socket 370
CPU Type	Intel® Pentium® M or Celeron® M	Intel® Pentium® 4 and Celeron® D	Intel® Pentium® 4, Celeron® D	Intel® Pentium® III
FSB	4533 MHz or 400 MHz	533 MHz or 800 MHz	533 MHz or 800 MHz	100 MHz or 133 MHz
Chipset	Intel® 915GM + ICH6-M	Intel® 915GV + ICH6	Intel® 865GV+ ICH5	Intel® 815E + ICH2
Memory	2 x 240-pin 1 GB (max.) 400 MHz or 533 MHz dual-channel DDR2 SDRAM DIMM (system max. 2 GB)	2 x 184-pin 1 GB (max.) 333 MHz or 400 MHz dual-channel DDR SDRAM DIMM (system max. 2 GB)	2 x 184-pin 1 GB (max.) 333 MHz or 400 MHz dual-channel DDR SDRAM DIMM (system max. 2 GB)	2 x 168-pin 512 MB (max.) 133 MHz PC100 RAM
Display Interface	VGA Integrated in the Intel® 915GM 18-bit dual channel LVDS DVI (WSB-9152SDVI / 9152DVI by IO-KIT-001) TV-out supports HDTV resolution	VGA Integrated in the Intel® 915GV DVI (WSB-9150DVI by IO-KIT-001)	VGA Integrated in the Intel® 865GV	VGA Integrated in the Intel® 815E
Ethernet	Dual PCIe GbE Broadcom BCM5787M chipsets	Broadcom BCM5787M PCIe GbE controllers	Intel® 82562ET Fast Ethernet chipset (ROCKY- 4786EV) 2nd Intel® 82547 GbE chipset (ROCKY-4786EVG)	Intel® 82562ET Ethernet chipset (ROCKY-3786EV) 2nd Intel® 82541PI GbE chipset (ROCKY-3786EVGU2)
I/O Interface	2 x RS-232 7 x USB 2.0 1 x LPT 1 x Infrared 1 x Keyboard and mouse (PS/2)	2 x RS-232 8 x USB 2.0 1 x LPT 1 x Infrared 1 x Keyboard and mouse (PS/2)	2 x RS-232 8 x USB 2.0 1 x LPT 1 x Infrared 1 x Keyboard and mouse (PS/2)	2 x RS-232 2 x USB 1.1 4 x USB 2.0 (ROCKY-3786EVGU2) 1 x LPT 1 x Infrared 1 x Keyboard and mouse (PS/2)
Drive Interface	2 x SATA 2 x SATA II (WSB-9152S/9152SDVlonly) 1 x IDE (2 x IDE for WSB-9152S/9152S-DVI) 1 x FDD	4 x SATA 1 x IDE 1 x FDD	2 x SATA 2 x IDE 1 x FDD	2 x SATA RAID 2 x IDE 1 x FDD
Audio	5.1 channel audio kit with Realtek ALC655 AC'97 codec 10-pin on-board header supports 7.1 channel HD Audio by IEI AC-KIT-883HD	5.1 channel audio kit with Realtek ALC655 AC'97 codec 10-pin on-board header supports 7.1 channel HD Audio by IEI AC-KIT-883HD	Realtek ALC655 AC'97 codec	Realtek ALC655 AC'97 codec
SSD	N/A	N/A	CF Type II	CF Type II
Digital I/O	8-bit digital I/O (4-bit input/4-bit output)	N/A	N/A	8-bit digital I/O (4-bit input/4-bit output)
Power consumption	12 V @ 2.08 A, 5 V @ 3.6 A, -12 V @ 0.1 A, 5 Vsb @ 0.93 A running a 2 GHz Intel® Pentium® M processor with a 533 MHz FSB and 512 MB of 400 MHz DDR SDRAM	5 V @ 5.67 A, 12 V @ 5.89 A running a 3.2 GHz Intel® Pentium® 4 512 KN cache processor with an 800 MHz FSB and 2 GB of 400 MHz DDR SDRAM	12 V @ 7.52 A, -12 V @ 500 mA, 5 V @ 6.98 A running a 3 GHz Intel® Pentium® 4 processor with a 800 MHz FSB and 512 MB of 400 MHz dual-channel DDR SDRAM	5 V @ 7.6 A, 12 V @ 0.230 A running a 1 GHz Intel® Pentium® III 256MB cache processor
Watchdog Timer	Software programmable and supports 1~255 sec. system reset	Software programmable and supports 1~255 sec. system reset	Software programmable and supports 1~255 sec. system reset	Software programmable and supports 1~255 sec. system reset
Operating Environment	Temperature Range 0°C ~ 60°C (32°F~ 140°F) Relative Humidity 5% ~ 95% non-condensing	Temperature Range 0°C ~ 60°C (32°F~ 140°F) Relative Humidity 5% ~ 95% non-condensing	Temperature Range 0°C ~ 60°C (32°F~ 140°F) Relative Humidity 5% ~ 95% non-condensing	Temperature Range 0 ~ 60°C (32°F~ 140°F) Relative Humidity 5% ~ 95% non-condensing
Expansion Slot	One PCIe Mini Card Slot	N/A	N/A	N/A
CPU cooler	CF-479B-RS	CF-478A-RS / CF-478B-RS / CF-512-RS / CF-519-RS	CF-478A-RS / CF-478B-RS / CF-512-RS / CF-519-RS	CF-370A-RS / CF-504-RS / CF-507-RS / CF-512-RS / CF-513-RS

WSB-Q354

PICMG1.0 CPU Card supports Intel® LGA 775 Core 2 Duo CPU in 45nm process at FSB800/1066/1333MHz, Intel® Q35 & ICH9R, VGA, Dual Intel GbE, Six SATA II with RAID, IDE, FDD, LPT, USB2.0



Dual DDR2
667

FSB1066



Specifications

- ◆ CPU
LGA775 45nm Intel® Core™2 Quad(Yorkfield), Core™2 Duo (Wofdale), Core™2 Duo, Celeron at FSB800/1066/1333MHz processors
- ◆ System Chipset
Intel® Q35 + ICH9R
- ◆ BIOS
AMI BIOS Label with 8Mb SPI EEPROM
- ◆ System Memory
4 x 240pin DIMM socket dual channel DDRII at 800/667MHz up to 8GB
- ◆ Ethernet
Dual Broadcom BCM5787M GbE with ASF 2.0
- ◆ IO Interface
2 x RS-232
7 x USB2.0 (1 on bracket, 6 on board by pin header)
6 x SATA II support RAID 0, 1, 10, 5
1 x IDE
1 x FDD
1 x LPT
1 x TPM
1 x Keyboard and mouse (PS/2)
1 x 5-pin on-board header for KB
- ◆ Digital I/O
8-bit Digital I/O, 4-bit input / 4-bit output
- ◆ IrDA
1 x Infrared
- ◆ Audio
10-pin on-board header supports 7.1 channel HD Audio by IEI AC-KIT883HD
- ◆ Graphic
Analog VGA output
- ◆ TPM1.2
1 x 20-pin on-board header for TPM(Trusted Platform Module)
- ◆ Watchdog Timer
Software Programmable supports 1~255sec. system reset
- ◆ Power Supply
ATX
- ◆ Power Consumption
3.3 V @ 0.03 A, 5 V @ 8.62 A, 5 Vsb @ 0.11 A, 12 V @ 0.1 A, Vcore@2.29A (Intel Core™2 Duo E8400, DDR2 800MHz 2GB x 4) 3D Mark 2001SE
- ◆ Temperature
operation: 0°C ~ 60°C (32°F ~ 140°F)
- ◆ Humidity
operation: 5% ~95% non-condensing
- ◆ Dimensions
338 mm x 126 mm
- ◆ Weight
GW:1.1kg

Generation	Core Duo / Core 2 Duo / Core 2 Quad							
Process	65nm	45nm						
CPU	Quad Core Yorkfield • Quad Core • Up to 12MB L2 • 95W/130W TDP • FSB1333/1066/800MHz IEI Solution <table border="1"> <tr><td>PCIE-Q350</td></tr> <tr><td>IMB-Q354</td></tr> <tr><td>WSB-Q354</td></tr> </table>	PCIE-Q350	IMB-Q354	WSB-Q354	 Yorkfield • Quad Core • Up to 12MB L2 • 95W/130W TDP • FSB1333/1066/800MHz IEI Solution <table border="1"> <tr><td>PCIE-Q350</td></tr> <tr><td>IMB-Q354</td></tr> <tr><td>WSB-Q354</td></tr> </table>	PCIE-Q350	IMB-Q354	WSB-Q354
	PCIE-Q350							
IMB-Q354								
WSB-Q354								
PCIE-Q350								
IMB-Q354								
WSB-Q354								
Dual Core Wofdale • Dual Core • Up to 6MB L2 • 65W TDP • FSB1333/1066/800MHz IEI Solution <table border="1"> <tr><td>PCIE-Q350</td></tr> <tr><td>IMB-Q354</td></tr> <tr><td>WSB-Q354</td></tr> </table>	PCIE-Q350	IMB-Q354	WSB-Q354	 Wofdale • Dual Core • Up to 6MB L2 • 65W TDP • FSB1333/1066/800MHz IEI Solution <table border="1"> <tr><td>PCIE-Q350</td></tr> <tr><td>IMB-Q354</td></tr> <tr><td>WSB-Q354</td></tr> </table>	PCIE-Q350	IMB-Q354	WSB-Q354	
PCIE-Q350								
IMB-Q354								
WSB-Q354								
PCIE-Q350								
IMB-Q354								
WSB-Q354								
FSB	1066 / 800 / 533MHz	1333 / 1066 / 800MHz						

Features

1. PICMG1.0 and RoHS compliant
2. Supports Intel® LGA775 Core™2 Duo processor in 45 nm Process (Wofdale) at FSB 1333/1066/800MHz
3. Intel® Q35 & ICH9R Platform
4. 6 SATA II with Intel Matrix Storage Technology supported
5. Dual Broadcom PCIe GbE
6. TPM1.2 IT Security Solution Supported

Packing List

1 x WSB-Q354 single board computer
1 x Mini jumper pack
6 x SATA cable (P/N: 32000062800-RS)
3 x SATA power cable (P/N: 32100-088600-RS)
1 x Dual RS-232 cable (P/N:19800-000051-RS)
1 x USB cable (P/N: CB-USB02-RS)
1 x Utility CD
1 x QIG

Ordering Information

Part No.	Description
WSB-Q354-R10	PICMG1.0 CPU Card supports Intel LGA 775 Core 2 Duo CPU in 45nm proces at FSB800/1066/1333MHz, Intel Q35 & ICH9R, VGA, Dual Intel GbE, Six SATA II with RAID, IDE, FDD, LPT, USB2.0
AC-KIT883HD-R10	7.1 Channel HD audio kit with Realtek ALC883 supports dual audio streams
CF-775A-RS	High Performance CPU cooler (115 mm x 115 mm x 67 mm, 130W)
CF-520-RS	High Performance CPU cooler (115 mm x 115 mm x 67 mm, 115W)
TPM-IN01-R10	Infineon 20-pin Trusted Platform Module with S/W Management Tool
TPM-WI01-R10	Winbond 20-pin Trusted Platform Module with S/W Management Tool
19800-000066-RS	KB/MS cable with bracket