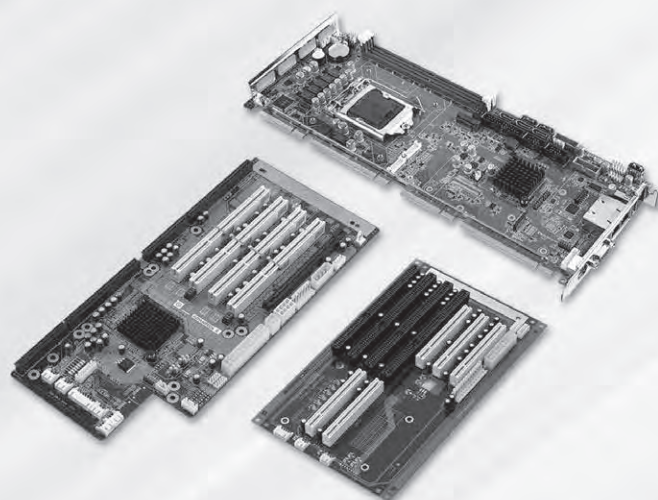


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To view all of Advantech's Slot SBC & Passive Backplanes, please visit www.advantech.com/products.

PICMG 1.3 System Host Boards



Model Name		LGA1155 PICMG 1.3 SHB PCE-5026	LGA1155 PICMG 1.3 SHB PCE-5127	LGA1150 PICMG 1.3 SHB PCE-5128	LGA1151 PICMG 1.3 SHB PCE-5029
Processor System	CPU	Intel® Core™ i7/Core™ i5/ Core™ i3 LGA1155 processors	Intel® Core™ i7/Core™ i5/ Core™ i3 LGA1155 Processors	Intel® Core™ i7/Core™ i5/ Core™ i3 LGA1150 Processors	Intel® Core™ i7/Core™ i5/ Core™ i3 LGA1151 Processors
	Max. Speed	3.4 GHz/3.4 GHz/3.1 GHz/ 3.3 GHz	3.4 GHz/3.4 GHz/3.1 GHz/ 3.3 GHz	3.1/2.9 GHz	3.7 GHz
	Cache	L3: 8/8/6/3/3 MB	L3: 8/8/6/3/3 MB	L3: 8/6 MB	Up to 8 MB (Depend on CPU)
	Chipset	Intel® H61	Intel® Q77	Intel® Q87	Intel® H110
	BIOS	AMI 64 Mbit SPI Flash	AMI 64 Mbit SPI Flash	AMI 128 Mbit SPI Flash	AMI 128 Mbit SPI Flash
Backplane Bus	PCIe	PICMG1.3: One x16 & Four x1	PICMG1.3: One x16 & Four x1	PICMG1.3: One x16 & Four x1	PICMG1.3: One x16 & Four x1
	PCI (32bit/33 MHz)	4	4	4	4
Memory	Technology	Dual-channel (Non-ECC) DDR3 1066/1333	Dual-channel (Non-ECC) DDR3 1333/1600	Dual-channel (Non-ECC) DDR3 1333/1600	Dual-channels (Non-ECC) DDR4 1866/2133
	Max. Capacity	16 GB	16 GB	16 GB	32 GB
	Socket	240-pins DIMM x 2	240-pins DIMM x 2	240-pins DIMM x 2	2 x 288-pins DIMM
Graphics	Controller	Chipset integrated Intel® HD Graphics	Chipset integrated Intel® HD Graphics	Chipset integrated Intel® HD Graphics	Chipset integrated Intel® HD Graphics
	VRAM	Shared system memory is subject to OS	Shared system memory is subject to OS	Shared system memory is subject to OS	Shared system memory is subject to OS
	Video Out	VGA	VGA/DVI-D (Optional DVI-D cable)	VGA/DVI-D/DVI-D (Optional DVI-D cable)	G2: VGA+DP/DVI (Optional DVI-D/DP cable) VG: VGA
Ethernet	Interface	10/100/1000 Mbps	10/100/1000 Mbps	10/100/1000 Mbps	10/100/1000 Mbps
	LAN1/LAN2 Controller	Intel® 82579V	Intel® 82579LM/ 82583V	Intel® I217LM/I211AT	LAN1: I219-V LAN2: I211-AT (G2 only)
	Connector	RJ45 x 1	RJ45 x 2	RJ45 X 2	G2: 2 VG: 1
	Disable in BIOS	Yes	Yes	Yes	Yes
SATA	Max. Data Transfer Rate	300 MB/s SATA2	300 MB/s SATA2.0 & 600 MB/s SATA3.0	600 MB/s SATA3.0	600 MB/s SATA3.0
	Channel	4 x SATA2.0	2 x SATA3.0; 4 x SATA2.0	6 x SATA3.0	4 x SATA3.0
	S/W Raid	-	0, 1, 5, 10	0, 1, 5, 10	-
Rear I/O	VGA	1	1	1	1
	Ethernet	1	2	2	G2: 2 VG: 1
	USB2.0	-	-	-	-
	USB3.0	-	1	1	G2: 1 VG: -
	PS/2	1	1	1	1
	Serial	1	-	-	G2: - VG: 1
Internal I/O	USB 2.0	10 USB 2.0 (Pin-header x 4+Vertical USB A type x 2+ 4 on backplane)	9 USB 2.0 (Pin-header x 4+USB Type A x 1 + 4 on backplane)	9 USB 2.0 (Pin-Header x 4 + USB Type A x 1 + 4 on backplane)	7 (Pin-header x 2+USB Type A x 1 + 4 on backplane)
	USB 3.0	-	2 USB3.0 (Pin-Header x 2)	2 USB3.0 (Pin-Header)	2 USB3.0 (Pin header)
	SATA	4	6	6	4
	M.2 (2280 Type M)	-	-	-	-
	Serial	2 RS-232(Pin-Header)	2 RS-232(Pin-Header)	2 RS-232(Pin-Header)	G2: 2 VG: 1
	Parallel	1(SPP/EPP/ECP)	1(SPP/EPP/ECP)	1(SPP/EPP/ECP)	1
	PS/2	1	1	1	1
	OBS(Onboard Security Hardware Monitor)	Yes	Yes	Yes	Yes
Watchdog Timer	Output	System reset	System reset	System reset	System reset
	Interval	Programmable, 1~255 sec	Programmable, 1~255 sec/min	Programmable, 1~255 sec/min	Programmable, 1~255 sec
Miscellaneous	Advantech Audio Module	PCA-AUDIO-HDA1E	PCA-AUDIO-HDA1E	PCA-AUDIO-HDA1E	PCA-AUDIO-HDB1E
	Advantech SNMP-1000	Yes	Yes	Yes	No
	Advantech SAB-2000	Yes	Yes	Yes	G2: Yes VG: -
	Advantech IPMI Module	-	-	-	-
	AMT	-	Yes	Yes	-
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LGA1151 PICMG 1.3 SHB	LGA1155 PICMG 1.3 SHB	LGA1150 PICMG 1.3 SHB	LGA1151 PICMG 1.3 SHB	LGA2011 PICMG 1.3 SHB
PCE-5129	PCE-7127	PCE-7128	PCE-7129	PCE-9228
Intel® Core™ i7/Core™ i5/ Core™ i3 LGA1151 Processors	Intel® Xeon®/Core™ i3/Pentium LGA1155 processors	Intel® Xeon® and Core™ i7/ Core™ i5/Core™ i3 LGA1150 Processors	Intel® Xeon and Core™ i7/Core™ i5/Core™ i3 LGA1151 Processors	Intel Xeon E5-2600 v3 series LGA2011 Processors
3.4 GHz	3.9/3.3/3.1 GHz	3.5/2.9 GHz	3.6 GHz	2.5 GHz
Up to 8 MB(Depend on CPU)	L3: 8/3/3 MB	L3: 8/6 MB	Up to 8 MB(Depend on CPU)	Up to 30 MB(Depend on CPU)
Intel Q170	Intel® C216	Intel® C226	Intel C236	Intel C612
AMI 128 Mbit SPI Flash	AMI 64 Mbit SPI Flash	AMI 128 Mbit SPI Flash	AMI 128 Mbit SPI Flash	AMI 128 Mbit SPI Flash
PICMG1.3: One x16 & Four x1	One x16/Two x8 & Four x1	One x16/ Two x8 & Four x1	PICMG1.3: One x16 / Two x8 & Four x1	PICMG1.3: One x16/ Two x8 & Four x1 Expansion (ODM optional): 64 lanes
4	4	4	4	4
Dual-channels (Non-ECC) DDR4 1600/1866/2133	Dual-channel (ECC) DDR3 1333/1600	Dual-channel (ECC) DDR3 1333/1600	Dual-channels (ECC) DDR4 1600/1866/2133	Quard-channels ECC-Register DDR4 1600/1866/2133
32 GB	16 GB	16 GB	32 GB	256 GB
2 x 288-pins DIMM	240-pins DIMM x 2	240-pins DIMM x 2	2 x 288-pins DIMM	288-pins DIMM x 8
Chipset integrated Intel® HD Graphics	Chipset integrated Intel® HD Graphics	Chipset integrated Intel® HD Graphics	Chipset integrated Intel® HD Graphics	AST1400/AST2400
Shared system memory is subject to OS	Shared system memory is subject to OS	Shared system memory is subject to OS	Shared system memory is subject to OS	DDR3 64MB
VGA+DP/DVI-D+DP/DVI-D	VGA/DVI-D (Optional DVI-D cable)	VGA/DVI-D/DVI-D (Optional DVI-D cable)	VGA+DP/DVI-D+DP/DVI-D	VGA
10/100/1000 Mbps	10/100/1000 Mbps	10/100/1000 Mbps	10/100/1000 Mbps	10/100/1000 Mbps
Intel I219LM/I211	Intel® 82579LM/ 82583V	Intel® I217LM/I210AT	Intel I219LM/I210AT	Intel I210AT/I210AT
RJ45 x 2	RJ45 x 2	RJ45 x 2	RJ45 x 2	RJ45 x 2
Yes	Yes	Yes	Yes	Lan1: No; Lan2: Yes
600 MB/s SATA3.0	300 MB/s SATA2.0 & 600 MB/s SATA3.0	600 MB/s SATA3.0	600 MB/s SATA3.0	600 MB/s SATA3.0
5 x SATA3.0	2 x SATA3.0; 4 x SATA2.0	6 x SATA3.0	5 x SATA3.0	8 x SATA3.0
0, 1, 5, 10	0, 1, 5, 10	0, 1, 5, 10	0, 1, 5, 10	0, 1, 5, 10
1	1	1	1	1
2	2	2	2	3(IPMI occupy 1 LAN)
0	-	-	0	2
1	1	1	1	2
1	1	1	1	1
-	-	-	-	-
7 USB2.0 (Pin-header x 2+USB Type A x 1+ 4 on backplane)	9 USB 2.0 (Pin-header x 4+USB Type A x 1+ 4 on backplane)	9 USB 2.0 (Pin-Header x 4 + USB Type A x 1 + 4 on backplane)	7 USB2.0 (Pin-header x 2+USB Type A x 1+ 4 on backplane)	4 USB 2.0 (On backplane)
4 USB3.0 (Pin header)	2 USB3.0 (Pin-Header)	2 USB3.0 (Pin-Header)	4 USB3.0 (Pin header)	2 USB3.0 (Pin-Header)
5	6	6	5	8
1 (Shared w/ SATA0 port)			1 (Shared w/ SATA0 port)	
2 RS-232(Pin-Header)	2 RS-232(Pin-Header)	2 RS-232(Pin-Header)	2 RS-232(Pin-Header)	1 RS-232(Pin-Header)
1	1(SPP/EPP/ECP)	1(SPP/EPP/ECP)	1	-
1	1	1	1	-
Yes	Yes	Yes	Yes	Yes
System reset	System reset	System reset	System reset	System reset
Programmable, 1~255 sec/min	Programmable, 1~255 sec/min	Programmable, 1~255 sec/min	Programmable, 1~255 sec/min	Programmable, 1~255 sec/min
PCA-AUDIO-HDB1E	PCA-AUDIO-HDA1E	PCA-AUDIO-HDA1E	PCA-AUDIO-HDB1E	PCA-AUDIO-HDA1E
Yes	Yes	Yes	Yes	Yes
Yes	Yes	Yes	Yes	Yes
-	Yes	Yes	-	Yes
Yes	Yes	Yes	Yes	-
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Half-Size Single Board Computers



Specifications		PCIe Half-Size SBC			
Processor System	CPU	Intel® Core™ i7/i5/i3/Pentium/Celeron LGA1155 processor	Intel Core i7/i5/i3/Pentium LGA 1150 Processor	Intel Core i7/i5/i3/Pentium LGA 1151 Processor	Intel Xeon E3-1200v5 series, Core i7/i5/i3 LGA1151 processors
	Speed	up to 3.4 GHz	Up to 3.5 GHz	Up to 3.7 GHz	Up to 3.7 GHz
	L2 Cache	up to 8 MB	Up to 8MB	Up to 8 MB	Up to 8 MB
	Chipset	Intel® H61	Intel H81	Intel H110	Intel C236
	BIOS	AMI 64 Mbit SPI Flash	AMI 128 Mbit SPI Flash	AMI 128 Mbit SPI Flash	AMI 128 Mbit SPI Flash
	FSB	N/A	N/A	N/A	N/A
Bus	PCIe	One PCIe x16, Four PCIe x1	One PCIe x16, Four PCIe x1	One PCIe x16, Four PCIe x1	One PCIe x16 or Two PCIe x8, Four PCIe x1
	PCI	-	-	-	-
	ISA	-	-	-	-
Graphics	Controller	Chipset integrated graphics with Intel® HD	Chipset integrated graphics with Intel HD	Chipset integrated graphics with Intel HD	Chipset integrated graphics with Intel HD
	VRAM	Shared with system memory is subject to OS	Shared with system memory is subject to OS	Shared with system memory is subject to OS	Shared with system memory is subject to OS
	Video output	D-sub VGA port, DVI	D-sub VGA port, DVI	VGA, DVI, DP	VGA, DVI, DP
Ethernet	Interface	10/100/1000 Mbps	10/100/1000 Mbps	10/100/1000 Mbps	10/100/1000 Mbps
	Controller	LAN1: Intel® 82579V LAN2: Intel® 82583V	LAN1: Intel® I217V LAN2: Intel® I211AT	LAN1: Intel® I219V LAN2: Intel® I211AT	LAN1: Intel® I219LM LAN2: Intel® I210AT
	Connector	RJ-45 x 2	RJ-45 x2	RJ-45 x2	RJ-45 x2
	Disabled in BIOS	Yes	Yes	Yes	Yes
Memory	Technology	Dual-Chnnel DDR3 1066/1333 MHz	Dual-channel DDR3 1066/1333/1600 MHz	Dual-channel DDR4 1866/2133 MHz	Dual channel DDR4 ECC 1866/2133 MHz (ECC function enable depends on processor support)
	Max. Capacity	16 GB	16 GB	32 GB	32GB
	Socket	204-pin SODIMM x 2	204-pin SODIMM x2	260-pin SODIMM x2	260-pin SO-DIMM X2
SATA	Max. Data Transfer Rate	300 MB/s	600 MB/s, 300 MB/s	600MB/s	600MB/s
	Channel	3	4	4	4
	RAID Mode	-	-	-	0,1,5,10
EIDE	Mode	-	-	-	-
	Channel	-	-	-	-
I/O Interface	USB	8 USB 2.0	2 USB 3.0 + 8 USB 2.0	3 USB 3.0 + 7 USB 2.0	3 USB 3.0 + 7 USB 2.0
	Serial	2 x RS-232 Optional: 4 x RS-422/485 w/Auto-flow or 4 RS-232 by COM module	2 x RS-232 Optional: 4x RS-422/485 w/Auto-flow or 4 x RS-232 by COM module	2 x RS-232 Optional: 4x RS-422/485 w/Auto-flow or 4 x RS-232 by COM module	2 x RS-232 Optional: 4x RS-422/485 w/auto-flow or 4 x RS232 by COM module
	Parallel FDD	1	1	1	1
	PS/2	-	-	-	-
	LAN	1	1	1	1
	LAN	2	2	2	2
	OBS (Onboard Security Hardware Monitor)	-	-	Yes	Yes
Watchdog Timer	Output	System reset	System reset	System reset	System reset
	Interval	Programmable 1-255 sec/min	Programmable 1-255 sec	Programmable 1-255 sec	Programmable 1-255 sec
Miscellaneous	Audio	PCA-AUDIO-HDA1E	PCA-AUDIO-HDA1E	PCA-AUDIO-HDB1E	PCA-AUDIO-HDA1E
	Advantech SNMP-1000	-	-	-	-
	IPMI	-	-	-	-
	Solid State Disk	-	-	mSATA x 1	mSATA x 1
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ISA Half-Size SBC					
PCI-7031	PCI-7032	PCA-6782	PCA-6763	PCA-6742	PCA-6743
Intel® Atom™ D510/N450	Intel Celeron J1900/N2930	Intel® Atom™ D525/N455	AMD G-Series APU T16R	Advantech EVA-X4300	DM&P Vortex86DX
1.66 GHz	2.00/1.83 GHz	D525 1.8 GHz/N455 1.66 GHz	615 MHz	300 MHz	800 MHz
512 KB (N450)/1 MB (D510)	2MB/2MB	512 KB (N455)/1 MB (D525)	512 KB	L1 Cache 32 KB	256 KB
Intel® Atom™ D510/N450+ICH8M	Intel Celeron J1900/N2930 SOC	Intel® Atom™ D525/N455+ICH8M	AMD T16R+A55E	Advantech EVA-X4300	DM&P Vortex86DX
AMI 16 Mbit SPI Flash	AMI 64 Mbit SPI Flash	AMI 16 Mbit SPI Flash	AMI 64 Mbit SPI Flash	Award integrated 256 KB ROM in EVA-X4300	Award integrated 256 KB ROM in Vortex86DX
-	-	-	-	-	-
-	One PCIe x 1 (F SKU) Only	-	-	-	-
32-bit/33 MHz PCI	32-bit/33 MHz PCI	-	-	-	-
-	-	16-bit ISA Bus	16-bit ISA Bus	8/16-bit 8 MHz ISA	16-bit ISA Bus
Embedded Gen3.5+ GFX Core™ technology	Chipset integrated graphics with Intel® HD	Embedded Gen3.5+ GFX Core™ technology	Radeon HD 6250	SMI 712 graphic controller	SMI 712 graphic controller
Shared with system memory up to 224 MB	Shared with system memory is subject to OS	Shared with system memory up to 224 MB	Shared with system memory up to 384MB	4 MB display memory	4 MB display memory
D-Sub VGA port, LVDS	D-sub VGA port, 48-bit LVDS, DVI	D-sub VGA port, 18 bit LVDS	D-sub VGA port, LVDS (48-bit for G2 SKU, 18-bit for VG SKU), DVI	D-Sub VGA port, 18/24 bit TTL or 18/24 bit LVDS (optional)	D-Sub VGA port, up to 24 bit TTL or 18 bit LVDS (optional)
10/100/1000 Mbps	10/100/1000 Mbps	10/100/1000 Mbps	10/100/1000 Mbps	10/100 Mbps	10/100 Mbps
LAN1: Intel® 82567V LAN2: Intel® 82583V	LAN1: Intel® I211 LAN2: Intel® I211	Intel® 82567V	LAN1: Intel® I211 LAN2: Intel® I211	Realtek RTL8100C (VE)	LAN on Vortex86DX
RJ-45 x 2	RJ-45 x 2	RJ-45 x 1	RJ-45 x 2	RJ-45 x 1	RJ-45 x 1
Yes	Yes	Yes	Yes	Yes	Yes
Onboard 1G DDR2 667 MHz (for PCI-7031N) Single Channel DDR2 667 MHz (for PCI-7031D)	Dual-Chnnel DDR3L 1333	Single-Channel DDR2 667 MHz (for PCA-6782N) Single-Channel DDR2 667/800 MHz (for PCA-6782D)	Onboard 1GB DDR3 1066 MHz SODIMM DDR3 1066 MHz up to 4GB	Default onboard DDR 2 166MHz	Default onboard DDR2 (for VE SKU) Default onboard DDR2 (for F SKU)
1 GB (for PCI-7031N) 2 GB (for PCI-7031D)	8GB (for G2/F SKU) 4GB (for VG SKU) 204-pin SODIMM x 2 (for G2/F SKU) 204-pin SODIMM x 1 (for VG SKU)	2 GB	5GB	64 MB	256 MB (for VE SKU) 512 MB (for F SKU)
200-pin SODIMM x 1	-	200-pin SODIMM x 1	204-pin SODIMM x 1	-	-
300 MB/s	300 MB/s	300 MB/s	300 MB/s	-	150 MB/s
3	2 (SATA 2 can change mSATA)	3	2 (SATA 2 can change mSATA)	-	1 (for F SKU)
-	-	-	-	-	-
ATA 100/66/33	-	ATA 100/66/33	-	UDMA 100	UDMA 100
1 (Max. 2 devices)	-	1 (Max. 2 devices)	-	1 (Max. 2 devices)	1 (Max. 2 devices)
7 USB 2.0	1 USB 3.0 + 6 USB 2.0 (for G2/F SKU) 1 USB 3.0 + 5 USB 2.0 (for VG SKU)	8 USB 2.0	7 USB 2.0 (for G2 SKU) 6 USB 2.0 (for VG SKU)	4 USB 2.0	4 USB 2.0
2 x RS-232 Optional: 4 x RS-422/485 w/Auto-flow by COM module	4 x RS-232/422/485 (for G2/F SKU) 2 x RS-232/422/485 (for VG SKU) Optional: 4 x RS-422/485 w/Auto-flow or 4 RS-232 by COM module	2 x RS-232 Optional: 4 x RS-422/485 w/Auto-flow by COM module	2 x RS-232 Optional: 4 x RS-422/485 w/Auto-flow by COM module	1 x RS-232/422/485 3 x RS-232	F SKU: 2 x RS-232/422/485 & 2 x RS-232 VE SKU: 2 x RS-232
1	1	1	1	1	1
1	-	1	1	-	1
1	1	1	1	1	1
2	2 (for G2/F SKU) 1 (for VG SKU)	1	2 (for G2/F SKU) 1 (for VG SKU)	1 (VE)	1
-	Yes (G2 SKU only)	-	-	-	-
System reset	System reset	System reset	System reset	System reset/IRQ11	System reset/IRQ11
Programmable, 1~255 sec/min	Programmable, 1~255 sec/min	Programmable, 1~255 sec/min	Programmable, 1~255 sec/min	Programmable, 1~255 sec/min	Programmable, 1~255 sec/min
PCA-AUDIO-HDA1E	PCA-AUDIO-HDB1E	PCA-AUDIO-HDA1E	PCA-AUDIO-HDA1E	-	-
-	-	-	-	-	-
-	-	-	-	-	-
CompactFlash Type I/II	mSATA x 1	CompactFlash Type I/II	mSATA x 1	CompactFlash Type I/II	CompactFlash Type I/II
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Intelligent Video and IoT Sensors

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PICMG1.3 Full-Size SHB Backplanes

Server Grade: Compatible with PCE-7000 Series CPU Boards

Category	Model Name	PCIe				PCI-X				PCI
		x16	x8	x4	x1	64/66	64/100	64/133	32/33	
2U Butterfly BP	PCE-7B06V-04A1E	-	1	-	-	-	-	-	-	4
8 slots BP	PCE-7B08-04A1E	-	2	1	-	-	-	-	-	4
14 slots BP	PCE-7B09R-04A1E	-	1	3	-	-	-	-	-	4
	PCE-7B10-04A1E	-		5	-	-	-	-	-	4
	PCE-7B13-64C1E	-	2	-	-	4	2	-	-	4
	PCE-7B13-07A1E	-	2	3	-	-	-	-	-	7
	PCE-7B13D-04A1E	-	1, 2	-	-	-	-	-	-	4
20 slots BP	PCE-7B17-00A1E	-	5	11	-	-	-	-	-	-

Category	Model Name	Wallmount/Desktop Chassis			
		IPC-6025	IPC-6606	IPC-6806(W)	IPC-6608
2U Butterfly BP	PCE-7B06V-04A1E	-	-	-	-
8 slots BP	PCE-7B08-04A1E	-	-	-	V
14 slots BP	PCE-7B09R-04A1E	-	-	-	-
	PCE-7B10-04A1E	-	-	-	-
	PCE-7B13-64C1E	-	-	-	-
	PCE-7B13-07A1E	-	-	-	-
	PCE-7B13D-04A1E	-	-	-	-
20 slots BP	PCE-7B17-00A1E	-	-	-	-

Category	Model Name	Rackmount Chassis													
		ACP-1010	ACP-1320	ACP-2000EBP	IPC-602EBP	IPC-510	IPC-610	IPC-611	ACP-4000	ACP-4010	ACP-4320	ACP-4340	ACP-4360	IPC-623	IPC-622
		2-slot / 1U		6-slot / 2U		15-slot / 4U									
2U Butterfly BP	PCE-7B06V-04A1E	-	-	V	V	-	-	-	-	-	-	-	-	-	-
8 slots BP	PCE-7B08-04A1E	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14 slots BP	PCE-7B09R-04A1E	-	-	-	-	V	V	V	V	V	V	V	V	-	-
	PCE-7B10-04A1E	-	-	-	-	V	V	V	V	V	V	V	V	-	-
	PCE-7B13-64C1E	-	-	-	-	V	V	V	V	V	V	V	V	-	-
	PCE-7B13-07A1E	-	-	-	-	V	V	V	V	V	V	V	V	-	-
	PCE-7B13D-04A1E	-	-	-	-	-	-	-	-	V	-	-	-	-	-
20 slots BP	PCE-7B17-00A1E	-	-	-	-	-	-	-	-	-	-	-	-	V	V

Desktop: Compatible with PCE-5000 Series CPU Boards

Category	Model Name	PCIe				PCI-X				PCI
		x16	x8	x4	x1	64/66	64/100	64/133	32/33	
1U Butterfly BP	PCE-5B03V-01A1E	1	-	-	-	-	-	-	-	1
	PCE-5B03V-00A1E	1		1	-	-	-	-	-	-
2U Butterfly BP	PCE-5B05V-30B1E	1	-	-	-	-	2	1	-	-
	PCE-5B06V-00A1E	1	-	-	4	-	-	-	-	-
	PCE-5B06V-04A1E	1	-	-	-	-	-	-	-	4
5 slot BP	PCE-5B04-20B1E	1	-	-	-	-	-	2	-	-
	PCE-5B05-02A1E	1	-	1	-	-	-	-	-	2
	PCE-5B05-03A1E	1	-	-	-	-	-	-	-	3
	PCE-5B05-04A1E	-	-	-	-	-	-	-	-	4
6 slot BP	PCE-5B06-00A1E	1	-	-	4	-	-	-	-	-
	PCE-5B06-03A1E	1	-	1	-	-	-	-	-	3
	PCE-5B06-04A1E	1	-	-	-	-	-	-	-	4
8 slot BP	PCE-5B07-04A1E	1	-	1	-	-	-	-	-	4
	PCE-5B08-02A1E	1	-	-	4	-	-	-	-	2
10 slot BP	PCE-5B09-04A1E	1	-	3	-	-	-	-	-	4
	PCE-5B09-06A1E	1	-	1	-	-	-	-	-	6
14 slot BP	PCE-5B10-04A1E	1	-	-	4	-	-	-	-	4
	PCE-5B12-07A1E	1	-	3	-	-	-	-	-	7
	PCE-5B12-64C1E	1	-	-	-	4	2	-	-	4
	PCE-5B13-08A1E	1	-	-	3	-	-	-	-	8
	PCE-5B12D-04A1E	1	-	-	-	-	-	-	-	4
20 slot BP	PCE-5B12-00A1E	10	-	1	-	-	-	-	-	-
	PCE-5B16Q-02A1E	1	-	-	-	-	-	-	-	2
	PCE-5B18-88B1E	1	-	-	-	8	-	-	-	8
	PCE-5B19-00A1E	17	-	1	-	-	-	-	-	-

Category	Model Name	Wallmount/Desktop Chassis					
		IPC-6025	IPC-6606	IPC-6806	IPC-6806W	IPC-6608	IPC-7132
1U Butterfly BP	PCE-5B03V-01A1E	-	-	-	-	-	-
	PCE-5B03V-00A1E	-	-	-	-	-	-
2U Butterfly BP	PCE-5B05V-30B1E	-	-	-	-	-	-
	PCE-5B06V-00A1E	-	-	-	-	-	-
	PCE-5B06V-04A1E	-	-	-	-	-	-
5 slot BP	PCE-5B04-20B1E	V	-	-	-	-	-
	PCE-5B05-02A1E	V	-	-	-	-	-
	PCE-5B05-03A1E	V	-	-	-	-	-
	PCE-5B05-04A1E	V	-	-	-	-	-
6 slot BP	PCE-5B06-00A1E	-	V	-	V	-	-
	PCE-5B06-03A1E	-	V	-	V	-	-
	PCE-5B06-04A1E	-	V	-	V	-	-
8 slot BP	PCE-5B07-04A1E	-	-	-	-	V	-
	PCE-5B08-02A1E	-	-	-	-	V	-
10 slot BP	PCE-5B09-04A1E	-	-	-	-	-	V
	PCE-5B09-06A1E	-	-	-	-	-	V
14 slot BP	PCE-5B10-04A1E	-	-	-	-	-	-
	PCE-5B12-07A1E	-	-	-	-	-	-
	PCE-5B12-64C1E	-	-	-	-	-	-
	PCE-5B13-08A1E	-	-	-	-	-	-
	PCE-5B12D-04A1E	-	-	-	-	-	-
20 slot BP	PCE-5B12-00A1E	-	-	-	-	-	-
	PCE-5B16Q-02A1E	-	-	-	-	-	-
	PCE-5B18-88B1E	-	-	-	-	-	-
	PCE-5B19-00A1E	-	-	-	-	-	-

Backplanes Compatible with Half-Size SBCs

Selection Guide

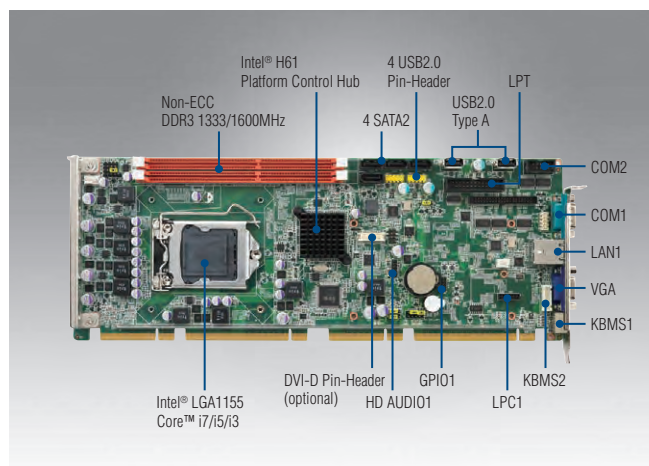
Yes : supported /- : not supported

Interface	Category	Model Name	Slots per segment							Segment
			ISA	PCI	PCIe x16	PCIe x 8	PCIe x4	PCIe x1	PICMG	
Pure ISA Backplane	-	PCA-6104-0C2E	3	-	-	-	-	-	1	1
	6-slot	PCA-6106-0B2E	5	-	-	-	-	-	1	1
	-	PCA-6108-0B2E *	7	-	-	-	-	-	1	1
	8-slot	PCA-6108E-0C2E	7	-	-	-	-	-	1	1
Pure PCI Backplane	-	PCA-6104P4-0B2E	-	3	-	-	-	-	1	1
	6-slot	PCA-6105P5-0B2E	-	4	-	-	-	-	1	1
	8-slot	PCA-6108P8-0A2E	-	7	-	-	-	-	1	1
PCI/PCIe Backplane	1U	PCI-7103P1V-01A1E	-	1	-	-	1	-	1	1
PICMG1.3 Half-Size Backplanes	6-slot	PCE-3B03-00A1E	-	-	1	-	1	-	1	1
	6-slot	PCE-3B06-00A1E	-	-	1	-	-	4	1	1
	6-slot	PCE-3B06-03A1E	-	3	1	-	-	1	1	1
	6-slot	PCE-3B06-02A1E	-	2	1	-	-	2	1	1
	3-slot	PCE-3B03A-00A1E	-	-	1	-	1	-	1	1
	3-slot	PCE-3B03-01A1E	-	1	1	-	-	-	1	1
	14-slot	PCE-3B12-08A1E	-	8	1	-	-	2	1	1
	14-slot	PCE-4B13-08A1E	-	8	-	2	-	2	1	1
	14-slot	PCE-4B12-03A1E	-	3	-	1	4	3	1	1
	14-slot	PCE-4B13-00A1E	-	-	-	1	11	-	-	-

Interface	Model Name	AT	ATX	IPC-120	ACP-4020	ACP-4D00	IPC-6806S*	IPC-6006S	IPC-3026	IPC-3012
				Rackmount	Rackmount	Rackmount	Wallmount	Wallmount	Wallmount	Wallmount
				3-slot	14-slot	6-slot	6-slot	6-slot	6-slot	3-slot
Pure ISA Backplane	PCA-6104-0C2E	Yes	Yes	-	-	-	-	-	-	-
	PCA-6106-0B2E	Yes	Yes	-	-	-	Yes	Yes	Yes	-
	PCA-6108-0B2E	Yes	Yes	-	-	-	-	-	-	-
	PCA-6108E-0C2E	Yes	Yes	-	-	-	-	-	-	-
Pure PCI Backplane	PCA-6104P4-0B2E	Yes	Yes	-	-	-	-	-	-	-
	PCA-6105P5-0B2E	Yes	Yes	-	-	Yes	Yes	Yes	Yes	-
	PCA-6108P8-0A2E	Yes	Yes	-	-	-	-	-	-	-
PCI/PCIe Backplane	PCI-7103P1V-01A1E	-	Yes	Yes	-	-	-	-	-	-
Half-Size Backplanes	PCE-3B03-00A1E	-	Yes	-	-	Yes	Yes	-	Yes	-
	PCE-3B06-00A1E	-	Yes	-	-	Yes	Yes	-	Yes	-
	PCE-3B06-03A1E	-	Yes	-	-	Yes	Yes	-	Yes	-
	PCE-3B06-02A1E	-	Yes	-	-	Yes	Yes	-	Yes	-
	PCE-3B03A-00A1E	-	Yes	-	-	-	-	-	-	Yes
	PCE-3B03-01A1E	-	Yes	-	-	-	-	-	-	Yes
	PCE-3B12-08A1E	-	Yes	-	Yes	-	-	-	-	-
	PCE-4B13-08A1E	-	Yes	-	Yes	-	-	-	-	-
	PCE-4B12-03A1E	-	Yes	-	Yes	-	-	-	-	-
	PCE-4B13-00A1E	-	Yes	-	Yes	-	-	-	-	-

PCE-5026

LGA1155 Intel® Core™ i7/i5/i3 SHB
DDR3/SATA 2.0/Single GbE



Features

- LGA1155 Intel® Core™ i7/i5/i3, Pentium® and Celeron® processors
- Dual Channel (Non-ECC) DDR3 1066/1333/1600* up to 16 GB
- Supports 10 USB2.0 and TPM1.2(Optional)
- Supports embedded software APIs and utilities

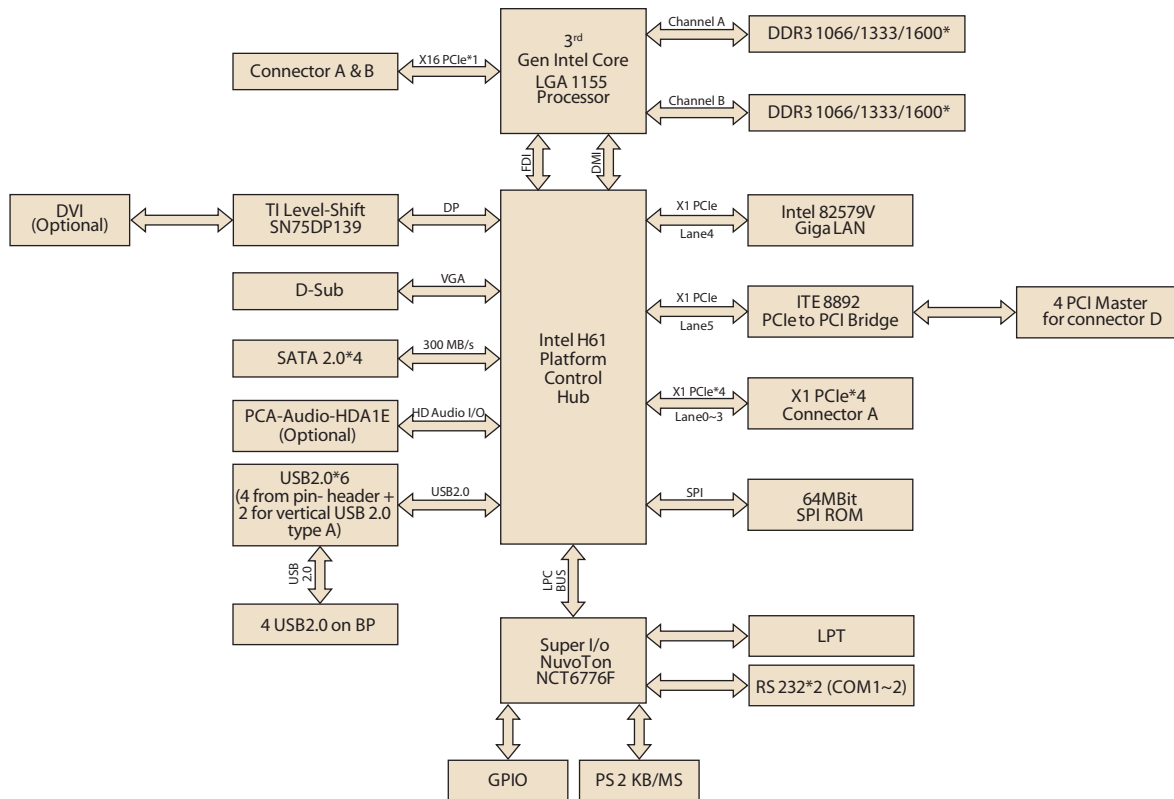
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Specifications

Processor System	CPU	Core i7-3770	Core i5-3550S	Core i3-3220	Pentium G2120	Pentium G850	Celeron G540
	Base Frequency	3.4 GHz	3.0 GHz	3.3 GHz	3.1 GHz	2.9 GHz	2.5 GHz
	L3 Cache	8 MB	6 MB	3 MB	3 MB	3 MB	2 MB
	Chipset	Intel H61					
	BIOS	AMI 64Mbit SPI Flash					
Bus	PCI Express	One PCIe x16, plus four x1 to backplane					
	PCI	Four 32-bit 33 MHz PCI Masters to Backplane					
Memory	Technology	Dual channel(Non-ECC) DDR3 1066/1333/1600*(depends on CPU Spec.)					
	Max. Cap.	16 GB (8 GB per DIMM)					
	Socket	DDR3 240-pin DIMM x 2					
Graphics	Controller	Chipset integrated Intel HD Graphics					
	VRAM	Shared system memory is subject to OS					
	Video Output	15 Pin VGA D-sub Connector x1/DVI-D connector x 1 (TPN optional)					
Ethernet	Interface	10/100/1000 Mbps					
	Controller	Intel 82579V					
	Connector with LED	RJ45 x 1					
SATA	SATA	SATA 2.0 x 4(300MB/sec)					
	Raid	-					
I/O Interface	USB	Ten USB2.0(Pin-header*4+Vertical USB A type*2+ 4 on backplane)					
	Serial	1 x RS-232 Pin-Header; 1 x RS-232 COM port					
	Parallel	1 (SPP/EPP/ECP)					
	PS/2	1 (Y cable for mouse and keyboard is included in the package)					
Watchdog Timer	Output	System reset					
	Interval	Programmable 1-255 sec					
Miscellaneous	Audio	Intel High Definition audio interface (required an audio extension module P/N: PCA-AUDIO-HDA1E)					
Power Requirement	Test Environment	Core i7-3770 (3.4 GHz) + DDR3 1066 4 GB x 2					
	Voltage	+12 V	+5 V	+3.3 V	+5 VSB	-12 V	-5 V
	Current	5.92 A	0.9 A	2.01 A	0.22 A	0.02 A	0 A
Environment	Temperature/Humidity	Operating			Non-operating		
		0 ~ 60° C(32 ~ 140° F); Depends on CPU frequency and cooler solution			-40 ~ 85° C and 60° C @ 95% RH Non-Condensing		
		40° C @ 85% RH Non-Condensing					
Physical	Dimensions	338 mm (L) x 122 mm (W) (13.3" x 4.8")					

Block Diagram



Ordering Information

Part Number	PCH	Memory	Backplane	LAN	VGA	DVI	COM	SATA II	USB 2.0	SW Raid	iAMT
PCE-5026VG-00A1E	H61	Non-ECC	PCE-5BXX	1	Yes	Optional	2	4	10	No	No

Packing List

Part Number	Description	Quantity
1700003194	Serial ATA HDD data cable	x2
1703150102	Serial ATA HDD power cable	x2
1701260305	COM + printer ports cable kit	x1
1700060202	Keyboard and mouse Y-cable	x1
1700008461	4-port USB cable kit	x1
9689000068	Jumper package	x1
2190000902	Warranty Card	x1
2006502610	Startup manual	x1
2066502600	Utility CD	x1

Optional Accessories

Part Number	Description
1960047831N001	PCE-5026 optimized CPU Cooler (2U)
PCA-AUDIO-HDA1E	Audio extension module
PCA-TPM-00A1E	Trusted Platform Module compliant TCG 1.2

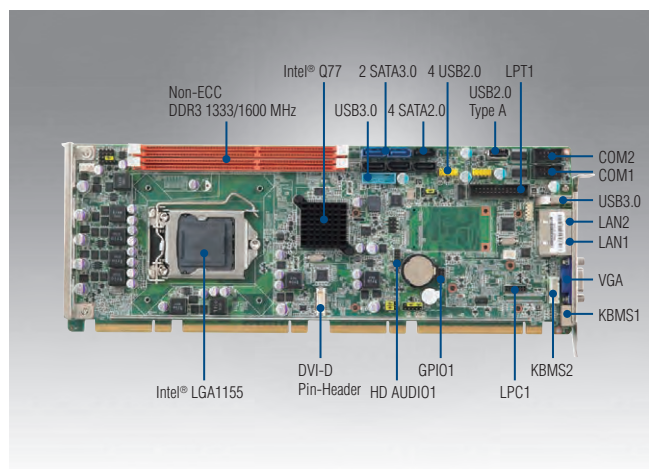
I/O View



PCE-5026VG-00A1E

PCE-5127

**LGA1155 Intel® Core™ i7/i5/i3 SHB DDR3/
SATA 3.0/USB3.0/Dual GbE**



Features

- LGA1155 Intel® Core™ i7/i5/i3 and Pentium® processors
- Dual Channel (Non-ECC) DDR3 1333/1600 up to 16 GB
- Supports USB3.0, SATA3.0, SW Raid 0, 1, 5, 10
- Out-of-band remote management with iAMT8.0 and TPM 1.2 (optional)
- Supports embedded software APIs and utilities

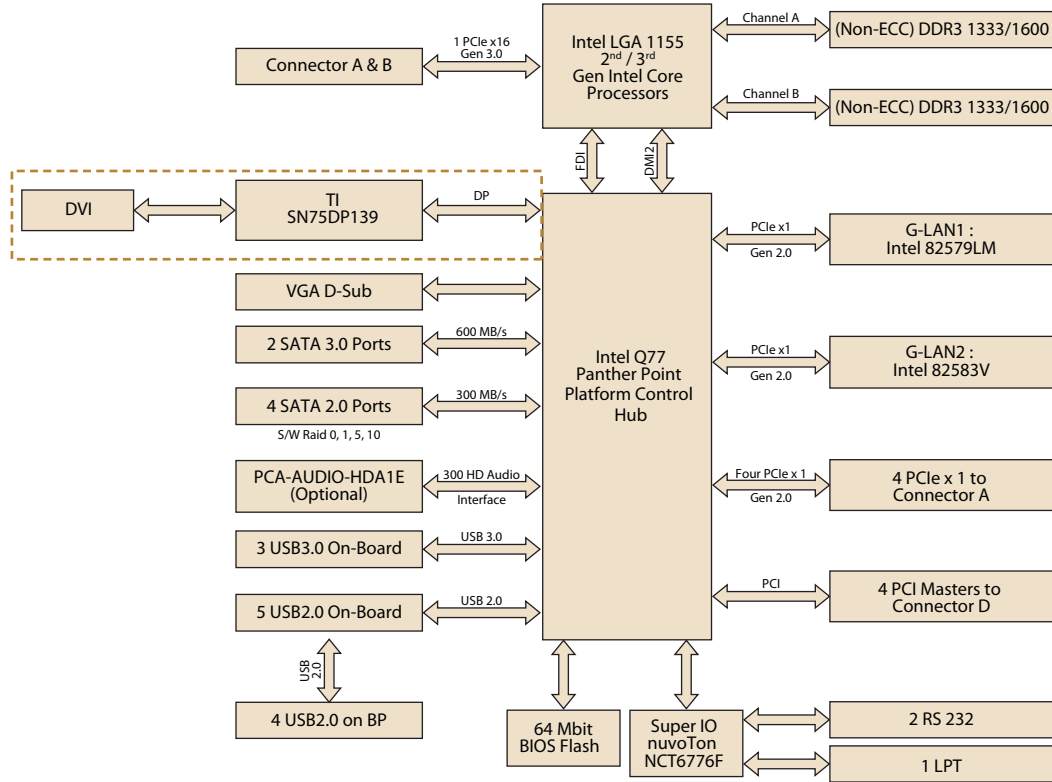
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Specifications

Processor System	CPU	Core i7-3770	Core i5-3550S	Core i3-3220	Pentium G2120	Pentium G850	Celeron G540
	Base Frequency	3.4 GHz	3.0 GHz	3.3 GHz	3.1 GHz	2.9 GHz	2.5 GHz
	L3 Cache	8 MB	6 MB	3 MB	3 MB	3 MB	2 MB
	SKU/Chipset	Intel Q77					
	BIOS	AMI 64Mbit SPI Flash					
Bus	PCI-Express	One x16 plus four x1 to backplane					
	PCI	Four 32-bit 33 MHz PCI Masters to backplane					
Memory	Technology	Dual channel (Non-ECC) DDR3 1333/1600					
	Max. Cap.	16 GB (8 GB per DIMM)					
	Socket	DDR3 240-pin DIMM x 2					
Graphics	Controller	Chipset integrated Intel HD Graphics					
	VRAM	Shared system memory is subject to OS					
	Video Output	15 Pin VGA D-sub Connector x1/DVI-D connector x1 (Pin Header)					
Ethernet	Interface	10/100/1000 Mbps					
	Controller	LAN 1: Intel 82579LM LAN 2: Intel 82583V					
	Connector with LED	RJ45 x 2					
SATA	S/W Raid 0, 1, 5, 10	SATA 2.0 x 4 (300 MB/sec) SATA 3.0 x 2 (600 MB/sec)					
I/O Interface	USB	Nine USB2.0 (Pin-header*4+USB Type A*1+ 4 on backplane); Three USB3.0 (Pin-Header*2+Rear*1)					
	Serial	2 x RS-232 Pin-Header					
	Parallel	1 (SPP/EPP/ECP)					
	PS/2	1 (Y cable for mouse and keyboard is included in the package)					
Watchdog Timer	Output	System reset					
	Interval	Programmable 1-255 sec					
Miscellaneous	Audio	Intel High Definition audio interface (required an audio extension module P/N: PCA-AUDIO-HDA1E)					
Power Requirement	Test environment	Core i7-3770 3.4GHz+DDR3 1333 4G X 2					
	Voltage	+12 V	+5 V	+3.3 V	+5 VSB	-12 V	-5 V
	Current	5.37 A	0.98 A	1.44 A	0.42 A	0.01 A	0 A
Environment	Temperature/Humidity	Operating			Non-operating		
		0 ~ 60° C(32~140° F); It subjects to CPU TDP and system thermal solution.			-40 ~ 85°C and 60° C @ 95% RH Non-Condensing		
		Operating humidity: 40° C @ 85% RH Non-Condensing					
Physical	Dimensions	338 mm (L) x 122 mm (W) (13.3" x 4.8")					

Block Diagram



Ordering Information

Part Number	PCH	Memory	Backplane	LAN	VGA	DVI-D	COM	SATA II	SATA III	USB 2.0	USB 3.0	S/W Raid	iAMT
PCE-5127G2-00A1E	Q77	Non-ECC	PCE-5BXX	2	Yes	Yes*	2	4	2	9	3	Yes	Yes

*Note: 1. Output DVI-D signal only (Required DVI-D cable)

Packing List

Part Number	Description	Quantity
1700003194	Serial ATA HDD data cable	x2
1700022749-11	Serial ATA HDD power cable	x1
1701260305	COM + printer ports cable kit	x1
1700060202	Keyboard and mouse Y-cable	x1
1700008461	4-port USB cable kit	x1
9689000068	Jumper package	x1
2190000902	Warranty Card	x1
2006512700	Startup manual	x1
2066512700	Utility CD	x1

Optional Accessories

Part Number	Description
1960047831N001	PCE-5127 optimized CPU Cooler (2U)
PCA-AUDIO-HDA1E	Audio extension module
PCA-TPM-00A1E	Trusted Platform Module compliant TCG 1.2
1700020277-01	2 ports USB 3.0 cable W/ BKT (30cm)
1700008822-11	DVI-D Cable
PCA-COM232-00A1E	4 Ports RS-232 Module by LPC

I/O View

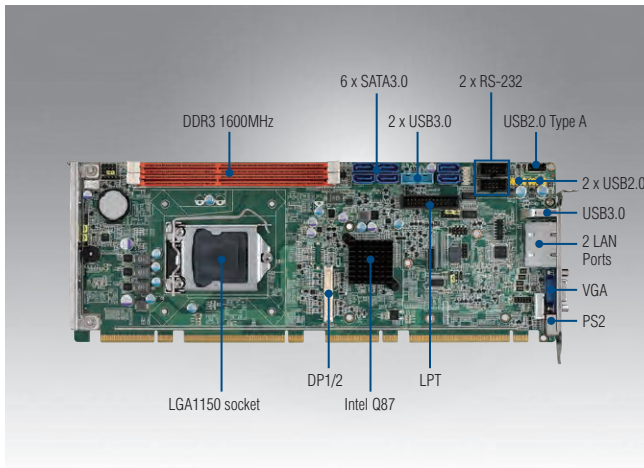


PCE-5127G2-00A1E

- 1 Intelligent Video and IoT Sensors
- 2 Intelligent Transportation Platforms
- 3 Intelligent Inspection Systems
- 4 Modular IPCs
- 5 Server-grade IPCs
- 6 Industrial Storages
- 7 Video Wall Controllers
- 8 GPU Servers
- 9 Industrial Motherboards
- 10 Slot SBC & Passive Backplanes
- 11 CompactPCI Platforms
- 12 Industrial Chassis
- 13 Industrial Computer Peripherals
- 14 Industrial Ethernet Solutions

PCE-5128

**LGA1150 Intel® Core™ i7/i5/i3/Pentium®
SHB DDR3/SATA 3.0/USB3.0/Dual GbE/
3 Displays**



Features

- Supports Intel® Core™ i7/i5/i3 LGA1150 processors with Q87
- Dual Channel (Non-ECC) DDR3 1333/1600 up to 16 GB
- Supports PCIE 3.0, USB 3.0, SATA3.0, SW Raid 0, 1, 5, 10
- Supports CRT and 2 x DP/DVI-D (optional) display
- Supports out-of-band remote management with AMT9.0
- Supports Advantech TPM module (LPC I/O)
- Supports SUSIAccess and Embedded Software APIs

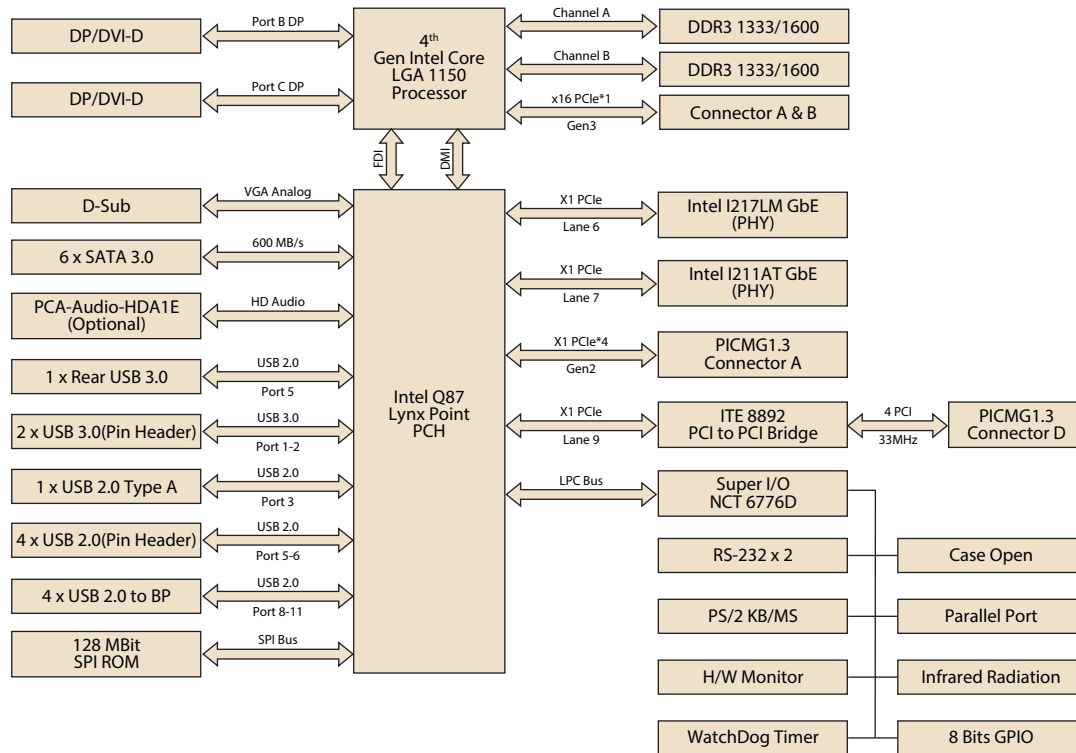
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Specifications

Haswell refresh CPUs are supported from BIOS V2.xx	
CPU	i7-4790S i5-4590S i5-4590T i3-4360 i3-4350T i3-4340TE
Base Frequency	3.2GHz 3.0GHz 2.0GHz 3.7GHz 3.1GHz 2.6GHz
L3 Cache	8MB 6MB 6MB 4MB 4MB 4MB
Haswell CPUs are supported by both BIOS V1.xx and V2.xx	
CPU	i7-4770S i7-4770TE i5-4570S i5-4570TE i3-4330 i3-4330TE G3420 G3320TE
Base Frequency	3.1GHz 2.3GHz 2.9GHz 2.7GHz 3.5GHz 2.4GHz 3.2GHz 2.3GHz
L3 Cache	8MB 8MB 6MB 4MB 3MB 3MB 3MB 3MB
SKU/Chipset	Intel Q87
BIOS	AMI 128Mbit SPI Flash
Bus	PCI-Express
	One x16 plus four x1 to backplane
Memory	Technology
	Dual channel (Non-ECC) DDR3 1333/1600 UDIMM
Memory	Max. Cap.
	16 GB (8 GB per DIMM)
Memory	Socket
	DDR3 240-pin DIMM x 2
Graphics	Controller
	Chipset integrated Intel HD Graphics
	VRAM
	Shared system memory is subject to OS
	CRT
Ethernet	DVI-D
	Supports resolution up to 2048 x 1536 pixel at 60MHz
	Supports resolution up to 1920 x 1200 pixel at 60MHz
Ethernet	Triple Display
	CRT+DP/DVI-D+DP/DVI-D
	Interface
Ethernet	Controller
	LAN 1: Intel I217LM
	LAN 2: Intel I211
SATA	Connector with LED
	RJ-45 x 2
Rear I/O	S/W Raid 0, 1, 5, 10
	SATA 3.0 x 6 (600 MB/sec)
	USB 3.0
	1
	Ethernet
Internal Connector	2
	VGA
	1
	PS/2
	1 (PS/2 Y cable supports 1 x keyboard and 1 x mouse)
Internal Connector	USB
	Night USB2.0 (Pin-header*4+USB Type A*1+ 4 on backplane);
	Two USB3.0 (Pin header)
	SATA
	6
	DP/DVI-D
	2 (Pin header)
Watchdog Timer	COM
	2
	Parallel
	1
	IrDA
Miscellaneous	GPIO
	8-bit
Power Requirement	Output
	System reset
Power Requirement	Interval
	Programmable 1-255 sec
Power Requirement	Audio
	Intel High Definition audio interface (required an audio extension module P/N: PCA-AUDIO-HDA1E)
Power Requirement	Test Environment
	Core i7-4770S DDR3 1600 8GB x 2
	Voltage
Power Requirement	Current
	+12V +5V +3.3V +5Vsb -12V -5V
	4.02A 1.36A 0.81A 0.09A 0A 0A
Environment	Operating
	0 ~ 60° C (32~140° F); Depends on CPU frequency and cooler solution
Environment	Temperature/Humidity
	Operating humidity: 40° C @ 85% RH Non-Condensing
Physical	Dimensions
	338 mm (L) x 122 mm (W) (13.3" x 4.8")

Block Diagram



Ordering Information

Part Number	PCH	Memory	Backplane	LAN	VGA	DP/ DVI-D	COM	SATA III	USB 2.0	USB 3.0	S/W Raid	AMT
PCE-5128G2-00A1E	Q87	Non-ECC	PCE-5BXX	2	Yes	2*	2	6	10	3	Yes	Yes

Note: Both DP and DVI-D cable are optional.

Packing List

Part Number	Description	Quantity
1700003194	Serial ATA HDD data cable	x2
1700022749-11	Serial ATA HDD power cable	x1
1701260305	COM + printer ports cable kit	x1
1700060202	Keyboard and mouse Y-cable	x1
1700008461	4-port USB cable kit	x1
9689000068	Jumper package	x1
2190000902	Warranty Card	x1
2006512800	Startup manual	x1
2066512800	Utility CD	x1

Optional Accessories

Part Number	Description
1960047831N001	PCE-5128 optimized CPU Cooler (2U)
PCA-AUDIO-HDA1E	Audio module
PCA-TPM-00A1E	TPM module(Trust Platform management)
PCA-COM232-00A1E	4 Ports RS-232 Module by LPC
PCA-COM485-00A1E	4 Ports RS-485/422 Module by LPC
1700020277-01	2 ports USB 3.0 cable w/ BKT(30cm)
1700021831-01	DP to DVI-D cable w/ BKT
PCE-DP10-00A1E	DP to DP cable w/ BKT

I/O View

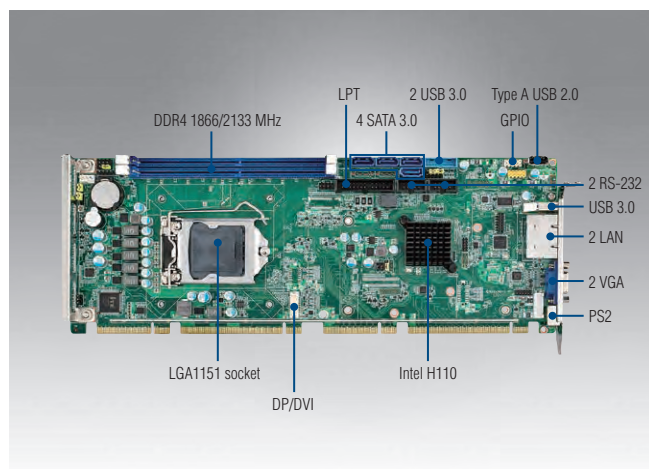


PCE-5128G2-00A1E

Intelligent Video and IoT Sensors	1
Intelligent Transportation Platforms	2
Intelligent Inspection Systems	3
Modular IPCs	4
Server-grade IPCs	5
Industrial Storages	6
Video Wall Controllers	7
GPU Servers	8
Industrial Motherboards	9
Slot SBC & Passive Backplanes	10
CompactPCI Platforms	11
Industrial Chassis	12
Industrial Computer Peripherals	13
Industrial Ethernet Solutions	14

PCE-5029

LGA1151 Intel® Core™ i series SHB
DDR4/SATA 3.0/USB3.0/Dual GbE/
Dual Displays



Features

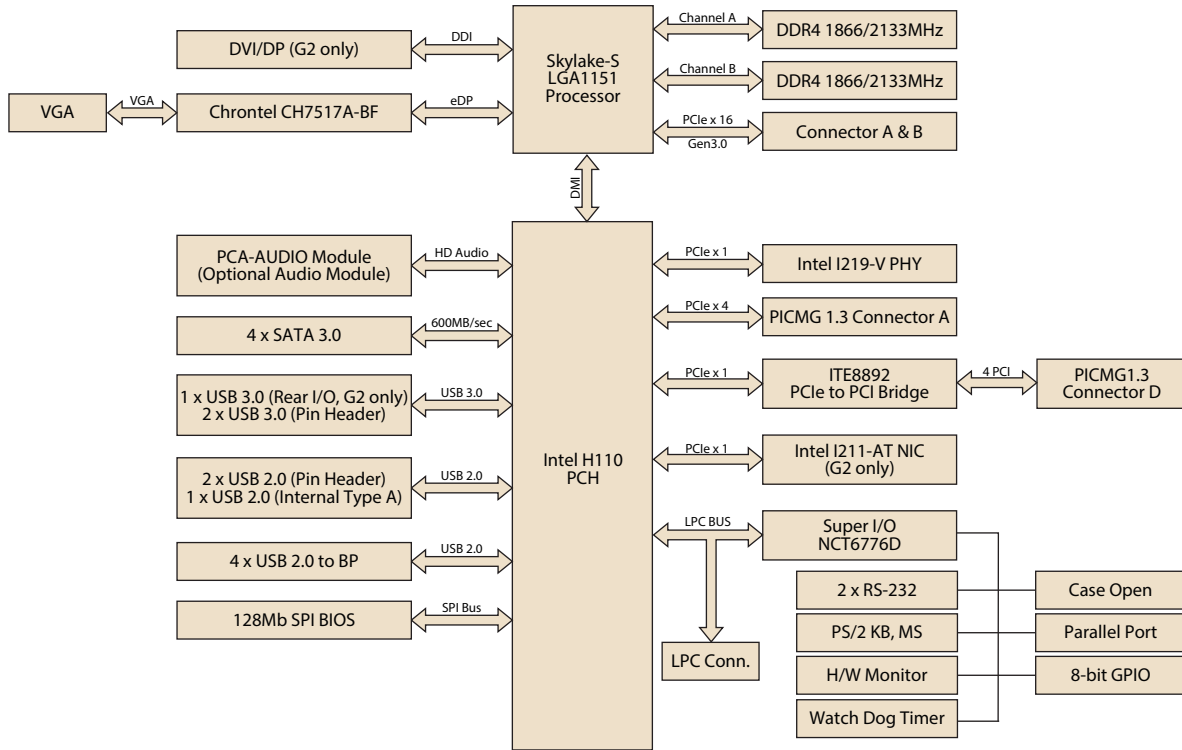
- Supports Intel Core™ i7/i5/i3 LGA1151 processors with H110
- Dual Channel (Non-ECC) DDR4 1866/2133 MHz up to 32 GB
- Supports PCIe 3.0, USB 3.0, SATA 3.0
- Supports CRT and DVI-D/DP (cable optional) display
- Supports Advantech LPC modules
- Supports SUSIAccess and Embedded Software APIs

CE FCC

Specifications

Processor System	CPU	i7-6700	i7-6700TE	i5-6500	i5-6500TE	i3-6100	i3-6100TE	G4400	G4400TE	G3900	G3900TE
	Speed	3.4 GHz	2.4 GHz	3.2 GHz	2.3 GHz	3.7 GHz	2.7 GHz	3.3 GHz	2.9 GHz	2.8 GHz	2.6 GHz
	Cache	8 MB	8 MB	6 MB	6 MB	4 MB	4 MB	3 MB	3 MB	2 MB	2 MB
	SKU/Chipset	Intel H110									
	BIOS	AMI 128Mbit SPI Flash									
Bus	PCI-Express	One x16 and one x4 to backplane									
	PCI	Four 32-bit 33 MHz PCI Masters to backplane									
Memory	Technology	Dual channel (Non-ECC) U-DIMM DDR4 1866/2133 MHz									
	Max. Cap.	32 GB (16 GB per DIMM)									
	Socket	DDR4 288 pins DIMM x 2									
Graphics	Controller	Chipset integrated Intel HD Graphics									
	VRAM	Shared system memory is subject to OS									
	CRT	Supports resolution up to 1920 x 1200 pixel @ 60MHz									
	DVI-D	Supports resolution up to 1920 x 1200 pixel @ 60MHz									
	Display Port	Supports resolution up to 4096x2304 @ 60Hz, 24bpp (Supporting 4K display required two DDR channels of same size)									
	Dual Display	CRT+DP/CRT+DVI									
Ethernet	Interface	10/100/1000 Mbps									
	Controller	LAN 1: Intel I219-V LAN 2: Intel I211-AT									
	Connector with LED	RJ45 x 2									
Rear I/O	USB 3.0	1 (G2 sku)									
	Ethernet	1 (VG sku); 2 (G2 sku)									
	VGA	1									
	Serial	1 (VG sku)									
	PS/2	1 (PS/2 Y cable supports 1 x keyboard and 1 x mouse)									
Internal Connector	USB	7 USB2.0 (Pin-header*2+USB Type A*1+ 4 on backplane); 2 USB3.0 (Pin header)									
	SATA	4									
	DP/DVI-D	1 (Pin header)									
	COM	2 (G2 sku) 1 (VG sku)									
	Parallel	1									
	GPIO	8 bits									
Watchdog Timer	Output	System reset									
	Interval	Programmable 1-255 sec									
Miscellaneous	Audio	Intel High Definition audio interface (required an audio extension module P/N: PCA-AUDIO-HDB1E)									
Power Requirement	Test environment	SKL 2.2G 65W; DDR4 2133 8GB x2									
	Voltage	+12V	+5V		+3.3V		+5Vsb		-12V	-5V	
	Current	2.64A	1.23A		0.19A		0.09A		0A	0A	
Environment		Operating					Non-operating				
	Temperature/Humidity	0 ~ 60° C(32~140° F); Depends on CPU and cooler solution Operating humidity: 40° C @ 85% RH Non-Condensing					-40 ~ 85°C and 60° C @ 95% RH Non-Condensing				
Phvsical	Dimensions	338 mm (L) x 122 mm (W) (13.3" x 4.8")									

Block Diagram



Ordering Information

Part Number	Chipset	Memory	Backplane	Display	USB 3.0	USB 2.0	COM	GbE LAN	AMT	SATA	SW RAID	Intelligent System Module Support
PCE-5029G2-00A1E	H110	Non-ECC	PCE-5BXX	VGA + DVI/DP*	3	7	2	2	No	4	No	Yes
PCE-5029VG-00A1E	H110	Non-ECC	PCE-5BXX	VGA	2	7	2	1	No	4	No	No

*Note: DP cable (P/N: PCE-DP10-00A1E) and DVI-D cable (1700021831-01) is optional.

Packing List

Part Number	Description	Quantity
1700003194	Serial ATA HDD data cable	x2
1700022749-11	Serial ATA HDD power cable	x1
1701260305	COM + printer ports cable kit	x1
1700060202	Keyboard and mouse Y-cable	x1
1700002204	2-port USB cable kit	x1
9689000068	Jumper package	x1
2190000902	Warranty card	x1
-	Startup manual	x1
-	Utility CD	x1

Optional Accessories

Part Number	Description
1700020277-01	2-port USB 3.0 cable w/ BKT(30 cm)
1700002204	2-port USB 2.0 cable w/ BKT(27 cm)
1700021831-01	DP to DVI-D cable w/ BKT for G2 sku
1701090401	Single COM cable(40 cm)
1701092300	Dual COM cable(28.5 cm)
1960052651N021	CPU cooler for 2U, 4U, and wallmount chassis
1960049408N001	CPU cooler for 1U chassis
PCA-TPM-00A1E	TPM Module
PCA-COM485-00A1E	4-Port RS-422/485 LPC Module
PCA-COM232-00A1E	4-Port RS-232 LPC Module
PCE-DP10-00A1E	DP redriver board(25 cm) for G2 sku
PCA-AUDIO-HDB1E	Extension module for High Definition Audio

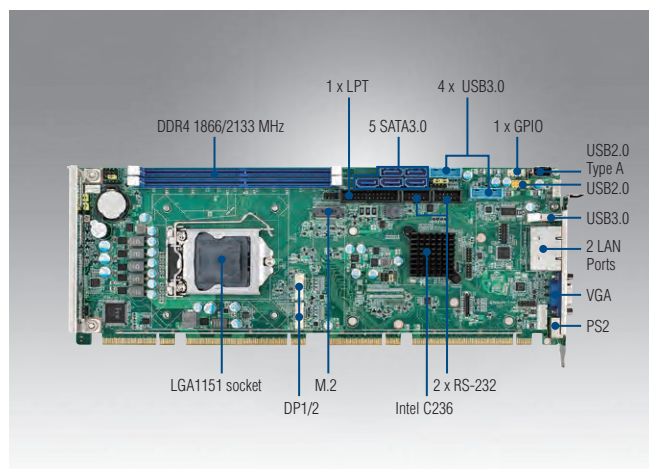
I/O View



PCE-5029G2-00A1E



PCE-5029VG-00A1E



Features

- Supports Intel® Core™ i7/i5/i3 LGA1151 processors with Q170
- Dual Channel (Non-ECC) DDR4 1866/2133 up to 32 GB
- Supports PCIe 3.0, M.2, USB 3.0, SATA3.0, SW Raid 0, 1, 5, 10
- Supports CRT and 2 x DVI-D/DP (cable optional) display
- Supports out-of-band remote management with AMT11.0
- Supports Advantech LPC modules
- Supports SUSIAccess and Embedded Software APIs

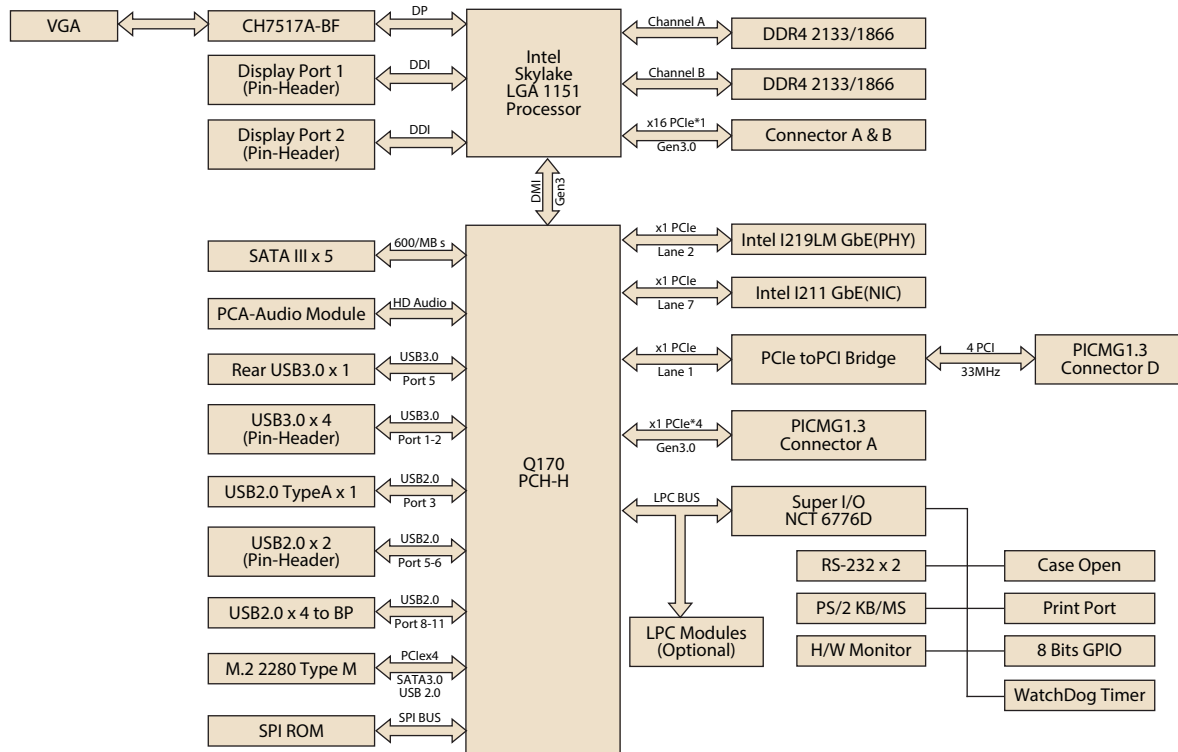
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CE FCC

Specifications

Processor System	CPU	i7-6700	i7-6700TE	i5-6500	i5-6500TE	i3-6100	i3-6100TE	G4400	G4400TE	G3900	G3900TE
	Base Frequency	3.4GHz	2.4GHz	3.2GHz	2.3GHz	3.7GHz	2.7GHz	3.3GHz	2.9GHz	2.8GHz	2.6GHz
	L3 Cache	8MB	8MB	6MB	6MB	4MB	4MB	3MB	3MB	2MB	2MB
	SKU/Chipset	Intel Q170									
	BIOS	AMI 128Mbit SPI Flash									
Bus	PCI-Express	One x16 and one x4 to backplane									
	PCI	Four 32-bit 33 MHz PCI Masters to backplane									
Memory	Technology	Dual channel (Non-ECC) U-DIMM DDR4 1866/2133 MHz (Note: support DDR4 1024M x 8 memory technology)									
	Max. Cap.	32 GB (16 GB per DIMM)									
	Socket	DDR4 288 pins DIMM x 2									
Graphics	Controller	Chipset integrated Intel HD Graphics									
	VRAM	Shared system memory is subject to OS									
	CRT	Supports resolution up to 1920 x 1200 pixel @ 60MHz									
	DVI-D	Supports resolution up to 1920 x 1200 pixel @ 60MHz									
	Display Port	Supports resolution up to 4096x2304 @ 60Hz, 24bpp (Supporting 4K display required two DDR channels of same size)									
	Triple Display	CRT+DP/DVI-D+DP/DVI-D									
Ethernet	Interface	10/100/1000 Mbps									
	Controller	LAN 1: Intel I219LM LAN 2: Intel I211									
	Connector with LED	RJ45 x 2									
Rear I/O	USB 3.0	1									
	Ethernet	2									
	VGA	1									
	PS/2	1 (PS/2 Y cable supports 1 x keyboard and 1 x mouse)									
Internal Connector	USB	7 USB2.0 (Pin-header*2+USB Type A*1+ 4 on backplane); 4 USB3.0 (Pin header)									
	SATA (SW Raid 0,1,5,10)	5									
	M.2 (2280 Type M)	1 (Support SATA3.0 or PCIe4 device)									
	DP/DVI-D	2 (Pin header)									
	COM	2									
	Parallel	1									
	IrDA	1									
	GPIO	8bit									
Watchdog Timer	Output	System reset									
	Interval	Programmable 1-255 sec									
Miscellaneous	Audio	Intel High Definition audio interface (required an audio extension module P/N: PCA-AUDIO-HDA1E)									
Power Requirement	Test environment	SKL 2.2G 65W DDR4 2133 8GB x 2									
	Voltage	+12V	+5V		+3.3V		+5Vsb		-12V	-5V	
	Current	2.64A	1.23A		0.19A		0.09A		0.06A	0V	
Environment		Operating						Non-operating			
	Temperature/Humidity	0 ~ 60° C(32~140° F); Depends on CPU and cooler solution Operating humidity: 40° C @ 85% RH Non-Condensing						-40 ~ 85°C and 60° C @ 95% RH Non-Condensing			
Physical	Dimensions	338 mm (L) x 122 mm (W) (13.3" x 4.8")									

Block Diagram



Ordering Information

Part Number	PCH	Memory	Backplane	LAN	VGA	DP/DVI-D	COM	SATA III	M.2	USB 2.0	USB 3.0	S/W Raid	AMT
PCE-5129G2-00A1E	Q170	Non-ECC	PCE-5BXX	2	Yes	2*	2	5	1	7	5	Yes	Yes

Note: DP/DVI-D cable is optional

Packing List

Part Number	Description	Quantity
1700003194	Serial ATA HDD data cable	x2
1700022749-11	Serial ATA HDD power cable	x1
1701260305	COM + printer ports cable kit	x1
1700060202	Keyboard and mouse Y-cable	x1
1700002204	2-port USB cable kit	x1
9689000068	Jumper package	x1
2190000902	Warranty Card	x1
2001512910	Startup manual	x1
2061512900	Utility CD	x1

Optional Accessories

Part Number	Description
1960052651N021	2U CPU cooler (PWM Fan)
1960049408N001	CPU cooler for 1U chassis
PCA-AUDIO-HDB1E	Audio module
PCA-TPM-00A1E	TPM module(Trust Platform management)
PCA-COM232-00A1E	4 Ports RS-232 Module by LPC
PCA-COM485-00A1E	4 Ports RS-485/422 Module by LPC
1700020277-01	2 ports USB 3.0 cable w/ BKT(30cm)
1700021831-01	DP to DVI-D cable w/ BKT
PCE-DP10-00A1E	DP to DP cable w/ BKT

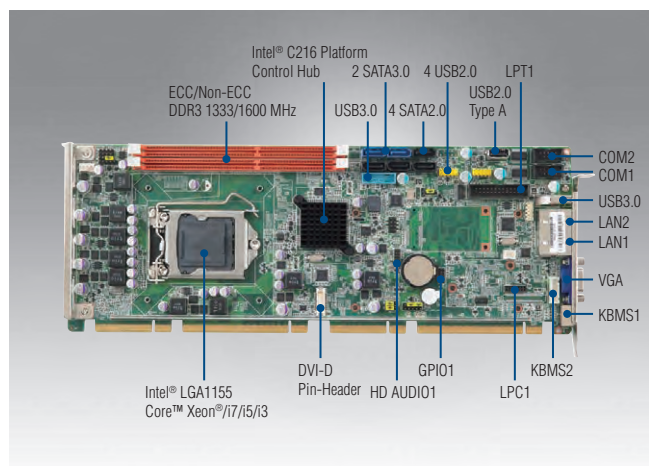
I/O View



PCE-5129G2-00A1E

PCE-7127

**LGA1155 Intel® Xeon®/Core™i3/
Pentium® SHB DDR3/SATA 3.0/USB3.0/
Dual GbE**



Features

- LGA1155 Intel® Xeon®/Core™i3/Pentium® processors
- Dual Channel (ECC) DDR3 1333/1600 up to 16 GB
- Supports USB3.0, SATA3.0, SW Raid 0, 1, 5, 10, and TPM 1.2 (optional)
- Out-of-band remote management with iAMT8.0 and IPMI (Optional)
- Supports embedded software APIs and utilities

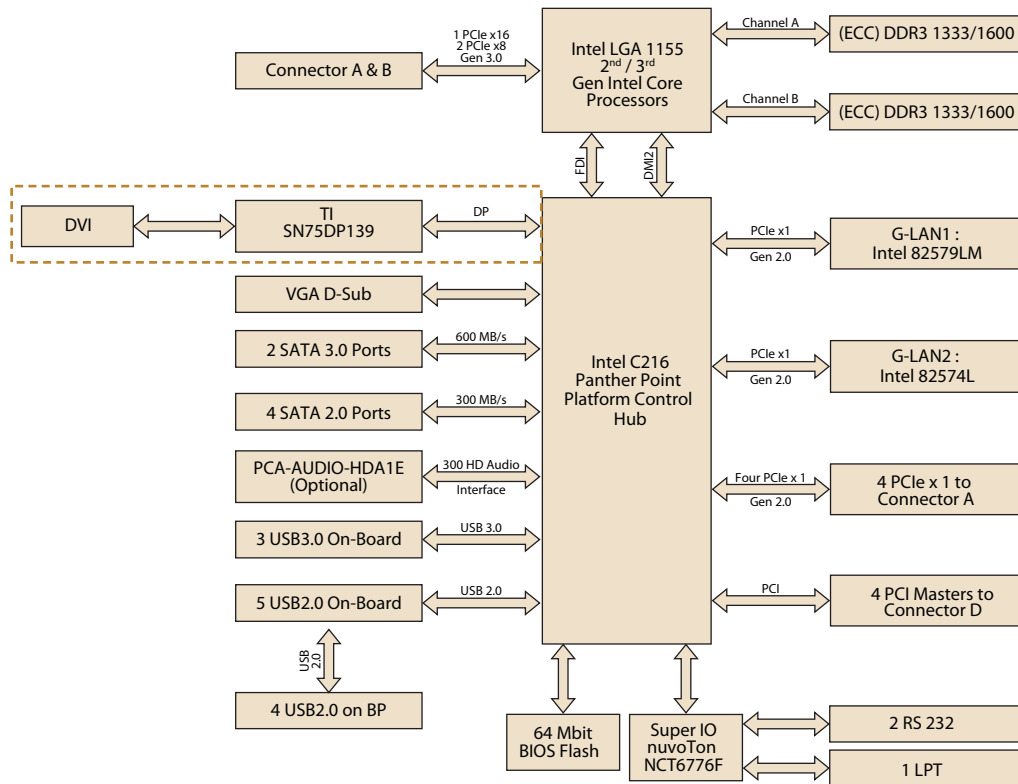
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CE FCC

Specifications

	CPU	Xeon E3-1275V2/ E3-1225V2	i7-3770	i5-3550S	Core i3-3220	Pentium G2120	Pentium G850	Celeron G540
Processor System	Base Frequency	3.5/ 3.2 GHz	3.4 GHz	3.0 GHz	3.3 GHz	3.1 GHz	2.9 GHz	2.5 GHz
	L3 Cache	8/ 8 MB	8 MB	6 MB	3 MB	3 MB	3 MB	2MB
	SKU/Chipset	Intel C216						
	BIOS	AMI 64Mbit SPI Flash						
Bus	PCI-Express	One x16 or two x8, plus four x1 to backplane Gen. 2.0						
	PCI	Four 32-bit 33 MHz PCI Masters to backplane						
Memory	Technology	Dual channel(ECC) DDR3 1333/1600 UDIMM *Note: ECC supported on Intel Xeon/i3/Pentium processors when paired with Intel C216 PCH						
	Max. Cap.	16 GB (8 GB per DIMM)						
	Socket	DDR3 240-pin DIMM x 2						
Graphics	Controller	Chipset integrated Intel HD Graphics						
	VRAM	Shared system memory is subject to OS						
	Video Output	15-Pin VGA D-sub Connector x1/DVI-D connector x 1 (Pin Header)						
Ethernet	Interface	10/100/1000 Mbps						
	Controller	LAN 1: Intel 82579LM LAN 2: Intel 82574L						
	Connector with LED	RJ-45 x 2						
SATA	Ports/Max. Transfer Rate	SATA 2.0 x 4 (300 MB/sec) SATA 3.0 x 2 (600 MB/sec)						
	Raid	SW Raid 0, 1, 5, 10						
I/O Interface	USB	Nine USB2.0 (Pin-header*4+USB Type A*1+ 4 on backplane); Three USB3.0 (Pin-Header*2+Rear*1)						
	Serial	2 x RS-232 Pin-Header						
	Parallel	1 (SPP/EPP/ECP)						
	PS/2	1 (Y cable for mouse and keyboard is included in the package)						
Watchdog Timer	Output	System reset						
	Interval	Programmable 1-255 sec						
Miscellaneous	Audio	Intel High Definition audio interface (Required an audio extension module P/N: PCA-AUDIO-HDA1E)						
Environment	Temperature/Humidity	Operating					Non-operating	
		0 ~ 60° C (32~140° F); It subjects to CPU TDP and system thermal solution.					-40 ~ 85° C and 60° C @ 95% RH Non-Condensing	
		Operating humidity: 40° C @ 85% RH Non-Condensing						
Physical	Dimensions	338 mm (L) x 122 mm (W) (13.3" x 4.8")						

Block Diagram



Ordering Information

Part Number	PCH	Memory	Backplane	LAN	VGA	DVI-D	COM	SATA II	SATA III	USB 2.0	USB 3.0	S/W Raid	iAMT	IPMI
PCE-7127G2-00A1E	C216	ECC/Non-ECC	PCE-5BXX/7BXX*	2	Yes	Yes*	2	4	2	9	3	Yes	Yes	Optional

* Note: 1. PCE-7127 supports all Advantech PCE-5BXX/7BXX backplanes except PCE-7B10-04A1E
2. Output DVI-D signal only (Required DVI-D cable)

Packing List

Part Number	Description	Quantity
1700003194	Serial ATA HDD data cable	x2
1700022749-11	Serial ATA HDD power cable	x1
1701260305	COM + printer ports cable kit	x1
1700060202	Keyboard and mouse Y-cable	x1
1700008461	4-port USB cable kit	x1
9689000068	Jumper package	x1
2190000902	Warranty Card	x1
2006512700	Startup manual	x1
2066512700	Utility CD	x1

Optional Accessories

Part Number	Description
1960047831N001	PCE-7127 optimized CPU Cooler (2U)
PCA-AUDIO-HDA1E	Audio extension module
PCA-TPM-00A1E	Trusted Platform Module compliant TCG 1.2
1700020277-01	2 ports of USB 3.0 cable W/ BKT(30cm)
1700008822-11	DVI-D Cable
PCA-COM232-00A1E	4 Ports RS-232 Module by LPC

I/O View

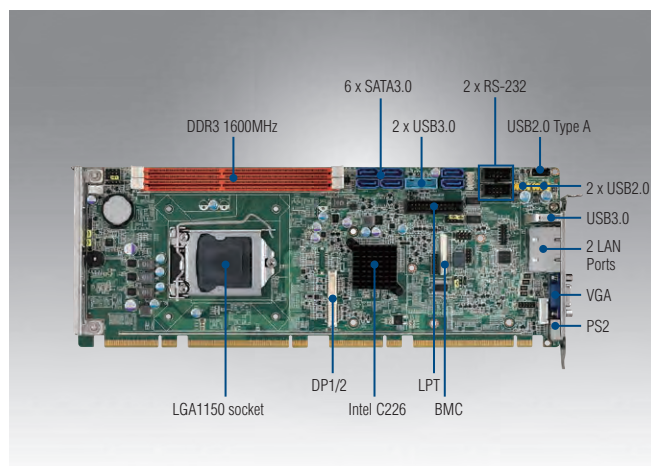


PCE-7127G2-00A1E

Intelligent Video and IoT Sensors	1
Intelligent Transportation Platforms	2
Intelligent Inspection Systems	3
Modular IPCs	4
Server-grade IPCs	5
Industrial Storages	6
Video Wall Controllers	7
GPU Servers	8
Industrial Motherboards	9
Slot SBC & Passive Backplanes	10
Compact PCI Platforms	11
Industrial Chassis	12
Industrial Computer Peripherals	13
Industrial Ethernet Solutions	14

PCE-7128

**LGA1150 Intel® Xeon®/Core™i3/
Pentium® SHB DDR3/SATA 3.0/USB3.0/
Dual GbE /3 Displays**



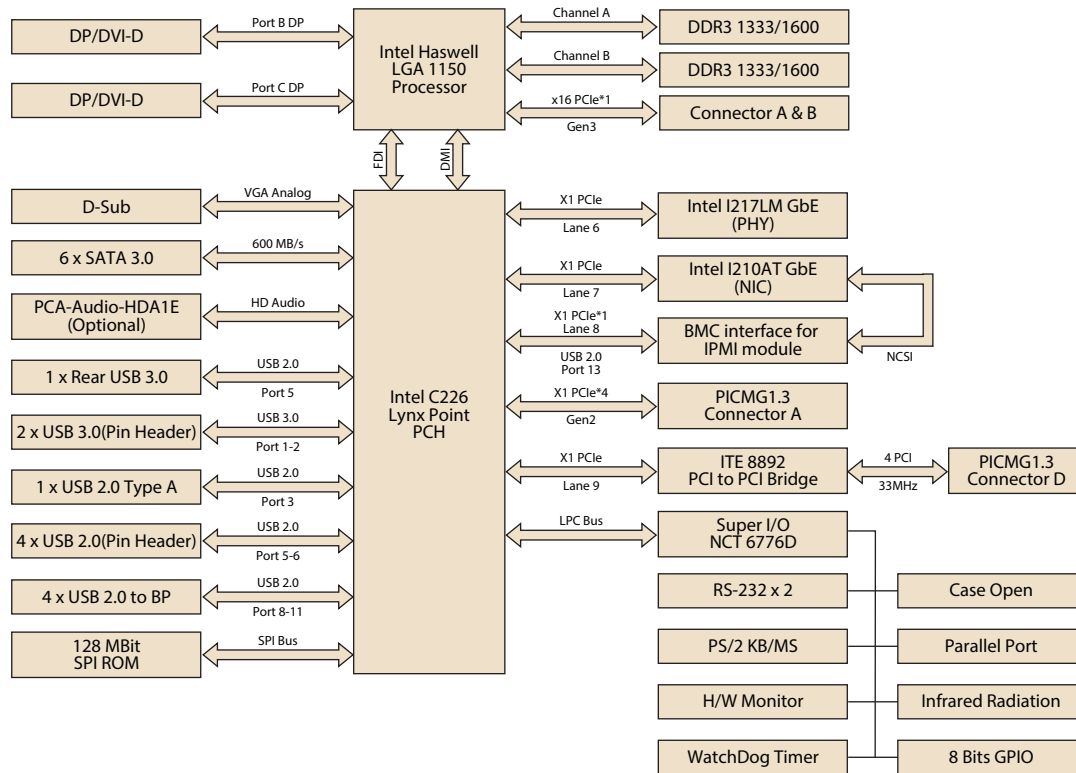
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CE FCC

Specifications

Processor System	Haswell refresh CPUs are supported from BIOS V2.xx											
	CPU	i7-4790S	i5-4590S	i5-4590T	i3-4360	i3-4350T	i3-4340TE					
	Base Frequency	3.2GHz	3.0GHz	2.0GHz	3.7GHz	3.1GHz	2.6GHz					
	L3 Cache	8MB	6MB	6MB	4MB	4MB	4MB					
	Haswell CPUs are supported by both BIOS V1.xx and V2.xx											
	CPU	E3-1275v3	E3-1225v3	E3-1268v3	i7-4770S	i7-4770TE	i5-4570S	i5-4570TE	i3-4330	i3-4330TE	G4320	G4320TE
	Base Frequency	3.5GHz	3.2GHz	2.3GHz	3.1GHz	2.3GHz	2.9GHz	2.7GHz	3.5GHz	2.4GHz	3.2GHz	2.3GHz
	L3 Cache	8MB	8MB	8MB	8MB	8M	6MB	4MB	3M	3M	3MB	3MB
	ECC Memory Supported	Yes	Yes	Yes	N/A	N/A	N/A	Yes	Yes	Yes	Yes	Yes
	SKU/Chipset	Intel C226										
BIOS	AMI 128Mbit SPI Flash											
Bus	PCI-Express	One x16 or Two x8 plus four x1 to backplane										
	PCI	Four 32-bit 33 MHz PCI Masters to backplane										
Memory	Technology	Dual channel (ECC/Non-ECC) DDR3 1333/1600 UDIMM (Note: Please select Intel ECC supported processor to enable ECC function)										
	Max. Cap.	16 GB (8 GB per DIMM)										
	Socket	DDR3 240-pin DIMM x 2										
Graphics	Controller	Chipset integrated Intel HD Graphics										
	VRAM	Shared system memory is subject to OS										
	CRT	Supports resolution up to 2048 x 1536 pixel at 60MHz										
	DVI-D	Supports resolution up to 1920 x 1200 pixel at 60MHz										
	Triple Display	CRT+DP/DVI-D+DP/DVI-D										
Ethernet	Interface	10/100/1000 Mbps										
	Controller	LAN 1: Intel I217LM LAN 2: Intel I210										
	Connector with LED	RJ45 x 2										
SATA	S/W Raid 0, 1, 5, 10	SATA 3.0 x 6 (600 MB/sec)										
Rear I/O	USB 3.0	1										
	Ethernet	2										
	VGA	1										
	PS/2	1 (PS/2 Y cable supports 1 x keyboard and 1 x mouse)										
	USB	Night USB2.0 (Pin-header*4+USB Type A*1+ 4 on backplane); Two USB3.0 (Pin header)										
Internal Connector	SATA	6										
	DP/DVI-D	2 (Pin header)										
	COM	2										
	Parallel	1										
	IrDA	1										
	GPIO	8bit										
Watchdog Timer	Output	System reset										
	Interval	Programmable 1-255 sec										
Miscellaneous	Audio	Intel High Definition audio interface (required an audio extension module P/N: PCA-AUDIO-HDA1E)										
Power Requirement	Test environment	Core i7-4770S DDR3 1600 8GB x 2										
	Voltage	+12V	+5V	+3.3V	+5Vsb	-12V	-5V					
	Current	4.02A	1.36A	0.81A	0.09A	0A	0A					
Environment		Operating Non-operating										
	Temperature/Humidity	0 ~ 60° C (32~140° F); Depends on CPU frequency and cooler solution Operating humidity: 40° C @ 85% RH Non-Condensing -40 ~ 85° C and 60° C @ 95% RH Non-Condensing										
Physical	Dimensions	338 mm (L) x 122 mm (W) (13.3" x 4.8")										

Block Diagram



Ordering Information

Part Number	PCH	Memory	Backplane	LAN	VGA	DP/ DVI-D	COM	SATA III	USB 2.0	USB 3.0	S/W Raid	AMT	IPMI
PCE-7128G2-00A1E	C226	ECC	PCE-5BXX PCE-7BXX	2	Yes	2*	2	6	10	3	Yes	Yes	Yes

Note: Both DP and DVI-D cable are optional.

Packing List

Part Number	Description	Quantity
1700003194	Serial ATA HDD data cable	x2
1700022749-11	Serial ATA HDD power cable	x1
1701260305	COM + printer ports cable kit	x1
1700060202	Keyboard and mouse Y-cable	x1
1700008461	4-port USB cable kit	x1
9689000068	Jumper package	x1
2190000902	Warranty Card	x1
2006512800	Startup manual	x1
2066512800	Utility CD	x1

Optional Accessories

Part Number	Description
1960047831N001	PCE-7128 optimized CPU Cooler (2U)
PCA-AUDIO-HDA1E	Audio module
PCA-TPM-00A1E	TPM module (Trust Platform management)
PCA-COM232-00A1E	4 Ports RS-232 Module by LPC
PCA-COM485-00A1E	4 Ports RS-485/422 Module by LPC
IPMI-1000-00A1E	IPMI2.0 module(Remote control management)
1700020277-01	2 ports USB 3.0 cable W/ BKT(30cm)
1700021831-01	DP to DVI-D cable w/ BKT
PCE-DP10-00A1E	DP to DP cable w/ BKT

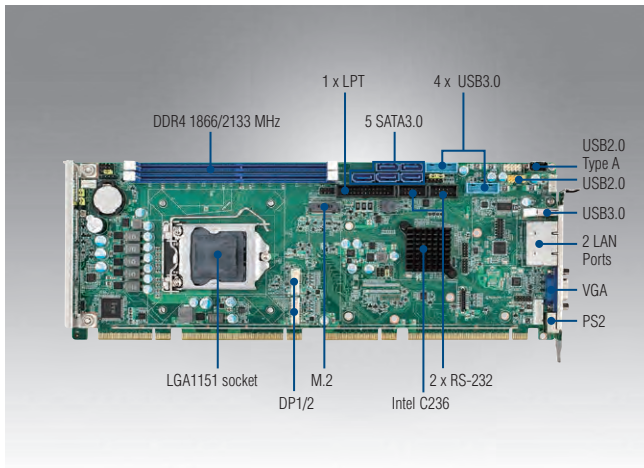
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PCE-7128G2-00A1E

PCE-7129

LGA1151 6th Generation Intel® Xeon®/Core™i3/Pentium® SHB DDR4/SATA 3.0/USB3.0/M.2/Dual GbE /3 Displays



Features

- Supports Intel® Xeon E3-1200v5 series, Core™ i7/i5/i3 LGA1151 processors with C236
- Dual Channel (ECC/Non-ECC) DDR4 1866/2133 up to 32 GB
- Supports PCIE 3.0, M.2, USB 3.0, SATA3.0, SW Raid 0, 1, 5, 10
- Supports CRT and 2 x DVI-D/DP(cable optional) display
- Supports out-of-band remote management with AMT11.0
- Supports Advantech LPC modules
- Supports SUSIAccess and Embedded Software APIs

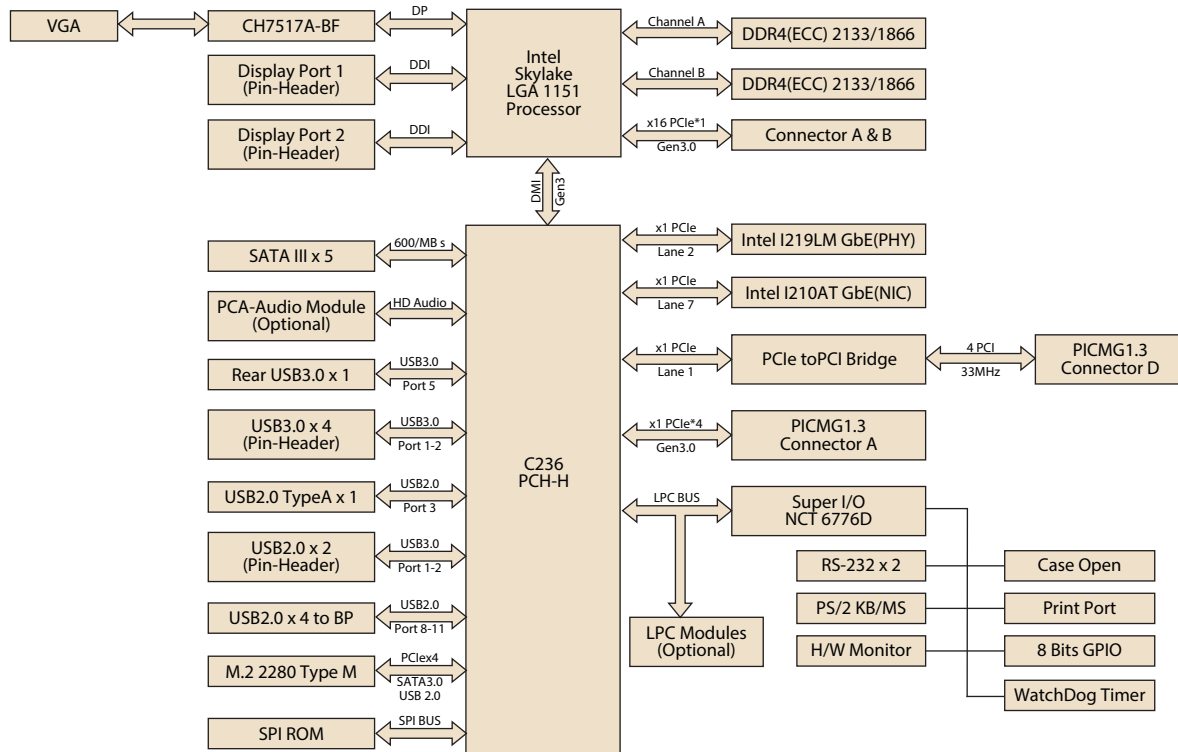
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Specifications

	CPU	E3-1275v5	E3-1225v5	E3-1268Lv5	i7-6700	i7-6700TE	i5-6500	i5-6500TE	i3-6100	i3-6100TE	G4400	G4400TE	G3900	G3900TE
Processor System	Base Frequency	3.6GHz	3.3GHz	2.4GHz	3.4GHz	2.4GHz	3.2GHz	2.3GHz	3.7GHz	2.7GHz	3.3GHz	2.9GHz	2.8GHz	2.6GHz
	L3 Cache	8MB	6MB	8MB	8MB	8MB	6MB	6MB	4MB	4MB	3MB	3MB	2MB	2MB
	SKU/Chipset	Intel C236												
	BIOS	AMI 128Mbit SPI Flash												
Bus	PCI-Express	One x16 or Two x8 and one x4 to backplane												
	PCI	Four 32-bit 33 MHz PCI Masters to backplane												
Memory	Technology	Dual channel (ECC/Non-ECC) U-DIMM DDR4 1866/2133 MHz (Note: Please select Intel ECC supported processor to enable ECC function; support DDR4 1024M x 8 memory technology)												
	Max. Cap.	32 GB (16 GB per DIMM)												
	Socket	DDR4 288 pins DIMM x 2												
Graphics	Controller	Chipset integrated Intel HD Graphics												
	VRAM	Shared system memory is subject to OS												
	CRT	Supports resolution up to 1920 x 1200 pixel @ 60MHz												
	DVI-D	Supports resolution up to 1920 x 1200 pixel @ 60MHz												
	Display Port	Supports resolution up to 4096x2304 @ 60Hz, 24bpp (Supporting 4K display required two DDR channels of same size)												
Ethernet	Triple Display	CRT+DP/DVI-D+DP/DVI-D												
	Interface	10/100/1000 Mbps												
	Controller	LAN 1: Intel I219LM LAN 2: Intel I210AT												
	Connector with LED	RJ45 x 2												
Rear I/O	USB 3.0	1												
	Ethernet	2												
	VGA	1												
	PS/2	1 (PS/2 Y cable supports 1 x keyboard and 1 x mouse)												
Internal Connector	USB	7 USB2.0 (Pin-header*2+USB Type A*1+ 4 on backplane); 4 USB3.0 (Pin header)												
	SATA (SW Raid 0,1,5,10)	5												
	M.2 (2280 Type M)	1 (Support SATA3.0 or PCIe4 device)												
	DP/DVI-D	2 (Pin header)												
	COM	2												
	Parallel	1												
	IrDA	1												
	GPIO	8bit												
Watchdog Timer	Output	System reset												
	Interval	Programmable 1-255 sec												
Miscellaneous	Audio	Intel High Definition audio interface (required an audio extension module P/N: PCA-AUDIO-HDA1E)												
Power Requirement	Test environment	SKL 2.2G 65W DDR4 2133 8GB x 2												
	Voltage	+12V		+5V		+3.3V		+5Vsb		-12V		-5V		
	Current	2.64A		1.23A		0.19A		0.09A		0.06A		0V		
Environment	Operating	Non-operating												
	Temperature/Humidity	0 ~ 60° C(32~140° F); Depends on CPU and cooler solution Operating humidity: 40° C @ 85% RH Non-Condensing												
Physical	Dimensions	338 mm (L) x 122 mm (W) (13.3" x 4.8")												

Block Diagram



Ordering Information

Part Number	PCH	Memory	Backplane	LAN	VGA	DP/DVI-D	COM	SATA III	M.2	USB 2.0	USB 3.0	S/W Raid	AMT
PCE-7129G2-00A1E	C236	ECC/Non-ECC	PCE-5BXX PCE-7BXX	2	Yes	2*	2	5	1	7	5	Yes	Yes

Note: DP/DVI-D cable is optional

Packing List

Part Number	Description	Quantity
1700003194	Serial ATA HDD data cable	x2
1700022749-11	Serial ATA HDD power cable	x1
1701260305	COM + printer ports cable kit	x1
1700060202	Keyboard and mouse Y-cable	x1
1700002204	2-port USB cable kit	x1
9689000068	Jumper package	x1
2190000902	Warranty Card	x1
2001512910	Startup manual	x1
2061512900	Utility CD	x1

Optional Accessories

Part Number	Description
1960052651N021	2U CPU cooler (PWM Fan)
1960049408N001	CPU cooler for 1U chassis
PCA-AUDIO-HDA1E	Audio module
PCA-TPM-00A1E	TPM module(Trust Platform management)
PCA-COM232-00A1E	4 Ports RS-232 Module by LPC
PCA-COM485-00A1E	4 Ports RS-485/422 Module by LPC
1700020277-01	2 ports USB 3.0 cable w/ BKT(30cm)
1700021831-01	DP to DVI-D cable w/ BKT
PCE-DP10-00A1E	DP to DP cable w/ BKT

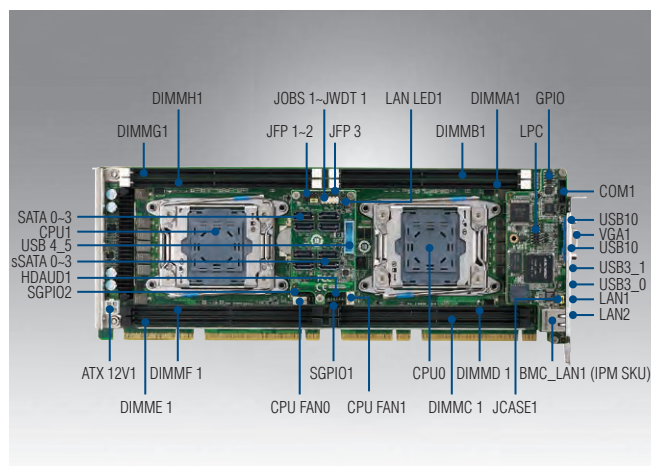
I/O View



PCE-7129G2-00A1E

PCE-9228

**Dual LGA 2011-R3 Intel Xeon®
E5-2600v3 SHB Server Board with C612,
DDR4/SATA3.0/USB3.0/Dual GbE**



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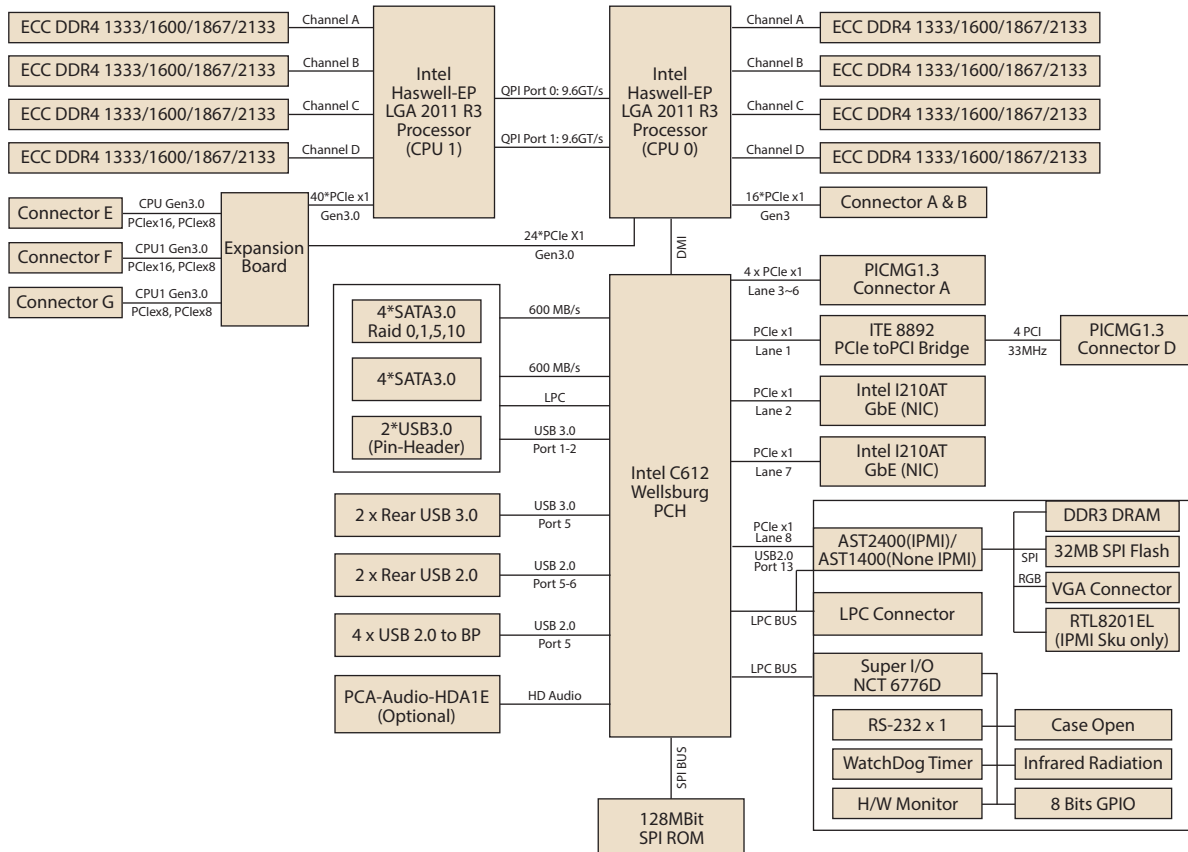
Features

- Supports Dual Intel Xeon E5-2600v3 series processors with C612
- Support DDR4 2133MHz RDIMM up to 256GB
- Support PCIe3.0,USB3.0,SW raid 0, 1, 5, 10
- Support out-of-band remote management with IPMI
- 0 ~ 40° C ambient operation temperature range

Specifications

Processor System	Socket	Intel LGA 2011-R3				
	CPU type	Intel Xeon E5-2600(v3) dual processor (TDP up to 120W per CPU)				
Core Logic	Chipset	Intel C612 chipset				
	Total slots	8 (Quad Channel)				
Memory	Capacity	Maximum 256 GB ECC RDIMM				
	Memory type	DDR4 ECC-REG 2133/1866/1600/1333 MHz DIMM				
	Memory size	1 GB, 2 GB, 4 GB, 8 GB, 16 GB, 32 GB				
Bus	PCI-Express	PICMG1.3: One PCIe x16 or Two PCIe x8, PCIe x4 from PCH				
	PCI	Expansion Board (ODM optional): Three PCIe16 and Two PCIe8 (Total 64 PCIe Links) Four PCI 32bit/33MHz				
Graphics	VGA	Aspeed AST2400/1400 64 MB				
Storage	SATA controller	8 SATA3.0 Ports support software raid 0, 1, 5, 10				
Networking	GbE LAN	2 x Intel I210AT				
Onboard I/O Connectors	USB connector	2 USB3.0 Ports in one pin header				
	CPU Fan header	2 x 4pin				
	GPIO	1				
	LAN LED	1				
	Audio Header	1				
Rear I/O Connectors	Serial port header	1 (Pin header 2.0 pitch)				
	External USB port	4 (2*USB2.0 + 2*USB3.0)				
	VGA port	1				
Management Solution	RJ-45	3 (1 port dedicated for IPMI function)				
	Software	SUSIAccess				
	Out of band remote management	IPMI (PCE-9228G2I sku only)				
Watchdog Timer	Output	System reset				
	Interval	Programmable 1 ~ 255 sec/min				
Power Requirement	Power On	3.3V	5V	12V	5Vsb	-12V
	E5-2680v3 x2	2.61A	1.07A	26.73A	0.07A	0.01A
	DDR4 RDIMM 16GB x8					
Environment	Operating					Non-operating
	Temperature	0 ~ 40° C, depends on CPU speed and cooler solution				-40 ~ 85° C
	Humidity	10% ~ 95%				10% ~ 95% (Non condensing)
Physical Characteristics	Dimensions	338 (L) x 122 mm (W) (13.3" x 4.8")				

Block Diagram



Ordering Information

Part Number	Chipset	Memory	GbE LAN	IPMI	VGA Chip
PCE-9228G2-00A1E	C612	DDR4 RDIMM	2	-	AST 1400
PCE-9228G2I-00A1E	C612	DDR4 RDIMM	2	Yes	AST 2400

Note: "I" sku features a dedicated LAN for IPMI function only.

Packing List

Part Number	Description	Quantity
2066922800	Driver CD	x 1
2006922810	Startup manual	x 1
1700003194	SATA data cables	x 2
1703150102	SATA power cables	x 1

Optional Accessories

Part Number	Description
PCA-AUDIO-HDA1E	HD Audio-card
PCA-TPM-00A1E	TPM Module
1960063011N011	Cooler IGA-2011 narrow cooler 107 x 70 x 64 for 4U chassis (120W; Puller fan)
1700020277-01	2 ports USB3.0 cable w/ BKT(30cm)
1700100250	COM port cable w/o bracket
PCA-COM232-00A1E	4 ports RS-232 module
PCA-COM485-00A1E	4 ports RS-422/485 module

I/O View



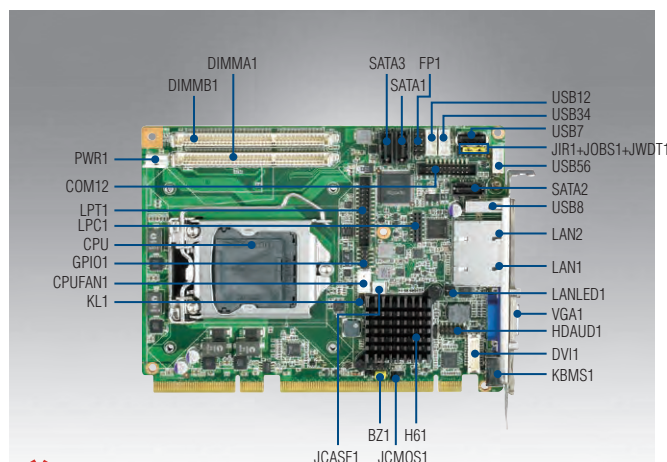
PCE-9228G2I-00A1E



PCE-9228G2-00A1E

PCE-3026

LGA 1155 Intel® Core™ i7/i5/i3 Half-size SHB with PCIe/VGA/DVI/Dual GbE LAN



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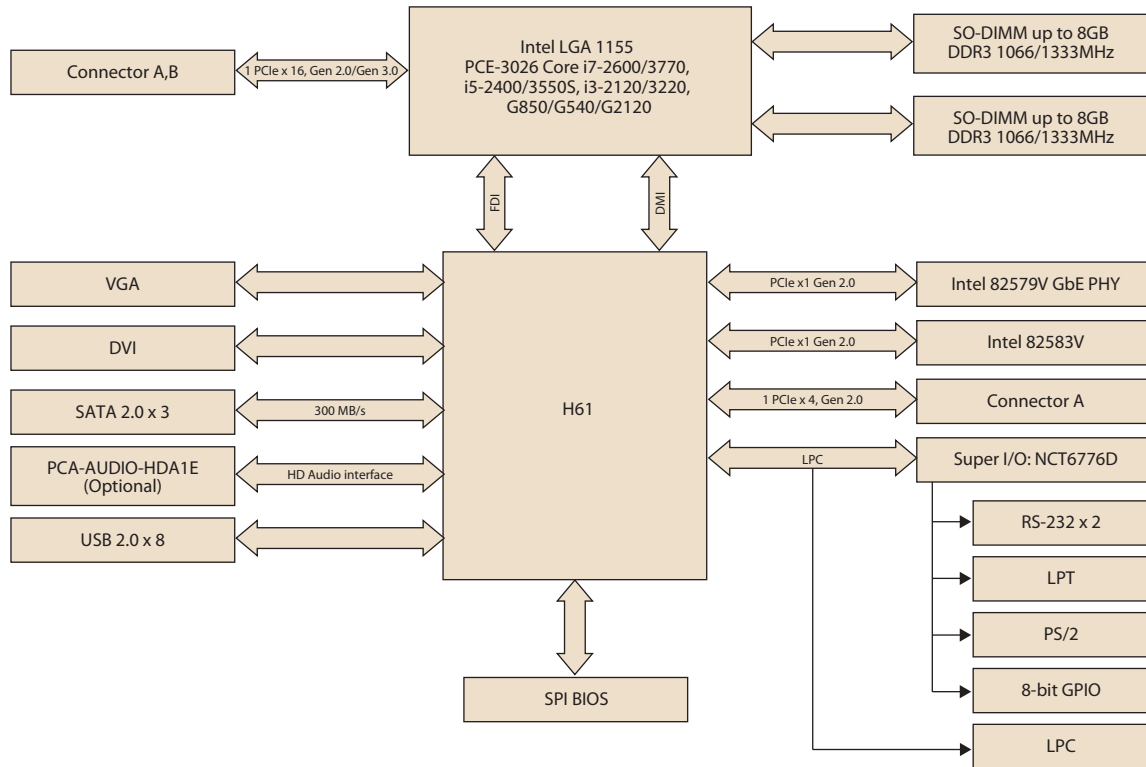
Features

- Complies with PICMG 1.3
- Supports LGA 1155 Intel® Core™ i7/i5/i3 processor
- Intel® H61
- Dual channel 1066/1333 MHz SO-DIMM up to 16 GB
- Three SATA 2.0 ports
- Supports dual 10/100/1000 Mbps Ethernet
- Supports one VGA and one DVI

Specifications

Processor System	CPU	Core i7-3770	Core i7-2600	Core i5-3550S	Core i5-2400	Core i3-3220	Core i3-2120	Pentium G2120	Pentium G850	Celeron G540
	Base Frequency	3.4 GHz	3.4 GHz	3.0GHz	3.1GHz	3.3GHz	3.3GHz	3.1GHz	2.9GHz	2.5GHz
	L3 Cache	8 MB	8 MB	6 MB	6 MB	3 MB	3 MB	3 MB	3 MB	2 MB
	Chipset	Intel H61								
	BIOS	AMI 64Mb SPI Flash								
BUS	PCI Express	One x16 & four x1 to backplane								
Memory	Technology	Dual channel DDR3 1066/1333 MHz SO-DIMM (Non ECC)								
	Max. Capacity	16 GB (8 GB per DIMM)								
	Socket	204-pin SODIMM x 2								
Graphics	Chipset Integrated	Chipset integrated Intel HD Graphics								
	Video Output	One DB-15 VGA output, One DVI out put								
Ethernet	Interface	10/100/1000 Mbps								
	Controller	GbE LAN1: Intel 82579V GbE PHY, GbE LAN2: Intel 82583V								
	Connector	RJ-45 x 2								
SATA	Max. Data Transfer Rate	300 MB/s (SATA 2.0)								
I/O Interface	USB	8 USB 2.0 480 Mbps (6 onboard, 1 on rear I/O, 1 type A onboard)								
	Serial	2 RS-232, and 4 RS-485 (optional: PCA-COM485-00A1E)								
	Parallel	1 (SPP/EPP/ECP)								
	PS/2	1								
Watchdog Timer	Output	System reset								
	Interval	Programmable 1 ~ 255 sec/ min								
Miscellaneous	Audio Output	HD audio interface (requires an audio extension module P/N: PCA-AUDIO-HDA1E)								
Power Requirement	Test environment	Core i5-2400 (3.1 GHz) + DDR3 1333 4 GB x 2								
	Voltage	+12 V	+5 V	+3.3 V	+5 VSB	-12 V	-5 V			
	Current	3.8 A	1.05 A	1.54 A	0.24 A	0 A	0 A			
Environment		Operating				Non-Operating				
	Temperature	0 ~ 60° C (32 ~ 140° F) (operation humidity: 40° C @ 85% RH Non-Condensing)				-40° C - 85° C and 60° C @ 95% RH Non-Condensing				
Physical Characteristics	Dimensions (W x D)	167.64 mm x 126.39 mm (6.6" x 4.98")								

Block Diagram



Ordering Information

Part Number	VGA	DVI	GbE LAN	USB	SATA	COM
PCE-3026G2-00A1E	Yes	1*	Dual	8	3	2 x RS-232 4 x RS-485 (optional)

* For DVI display, optional DVI cable (1700008822) is required.

Packing List

Part Number	Description	Quantity
1700002223	Printer (parallel) port cable	1
1700003194	Serial ATA HDD data cable	1
1703150102	Serial ATA HDD power cable	1
1700008762	2-port COM cable kit	1
1700014398	4-port USB cable kit	1
1703040100	Power converter	1

I/O View



PCE-3026

Optional Accessories

Part Number	Description
PCA-AUDIO-HDA1E	Audio extension module with HD audio interface
PCA-TPM-00A1E	Trusted platform module compliant with TCG 1.2
PCA-COM485-00A1E	4 x RS-422/485 module
PCA-COM232-00A1E	4 x RS-232 module
1700008822	DVI cable
1960047831N001	2U CPU cooler for i7-3770, i7-2600, i5-3550S, i5-2400, i3-3220, i3-2120, G2120, G850, G540
1960053207N001	1.5U CPU cooler for i7-2600, i5-3550S, i5-2400, i3-3220, i3-2120, G2120, G850, G540
1960053065N001	1U blower for i3-3220, i3-2120, G2120, G850, G540

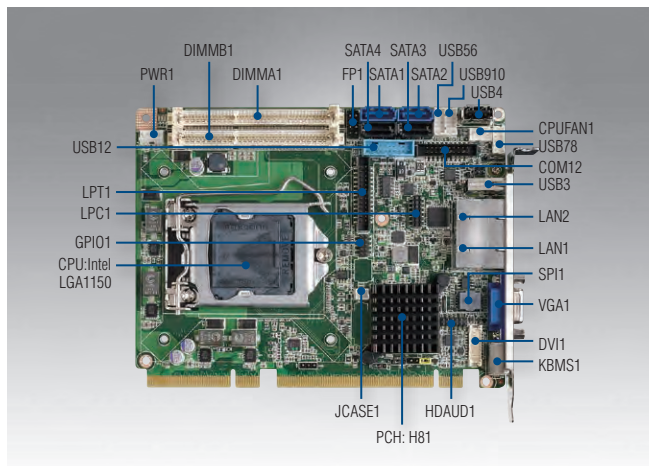
Compatible Backplane and Chassis

Backplane Model	PCI	PCIe x16	PCIe x4	PCIe x1	Compatible Chassis
PCE-3B03-00A1E	-	1	1	-	IPC-3026/IPC-6806S
PCE-3B06-00A1E	-	1	-	4	IPC-3026/IPC-6806S
PCE-3B06-03A1E	3	1	-	1	IPC-3026/IPC-6806S

- 1 Intelligent Video and IoT Sensors
- 2 Intelligent Transportation Platforms
- 3 Intelligent Inspection Systems
- 4 Modular IPCs
- 5 Server-grade IPCs
- 6 Industrial Storages
- 7 Video Wall Controllers
- 8 GPU Servers
- 9 Industrial Motherboards
- 10 Slot SBC & Passive Backplanes
- 11 CompactPCI Platforms
- 12 Industrial Chassis
- 13 Industrial Computer Peripherals
- 14 Industrial Ethernet Solutions

PCE-3028

**LGA 1150 4th Generation Intel® Core™
i7/i5/i3 Half-size SHB with PCIe/VGA/
DVI/Dual GbE LAN**



Features

- Complies with PICMG 1.3
- Supports Intel Core i7/i5/i3 LGA1150 processors with H81
- Dual Channel (Non-ECC) DDR3 1066/1333/1600 up to 16 GB
- Supports USB 3.0, SATA3.0
- Supports CRT and DVI-D (optional) display
- Support dual 10/100/1000 Mbps Ethernet
- Supports Advantech TPM module (LPC I/O)
- Supports SUSIAccess and Embedded Software APIs

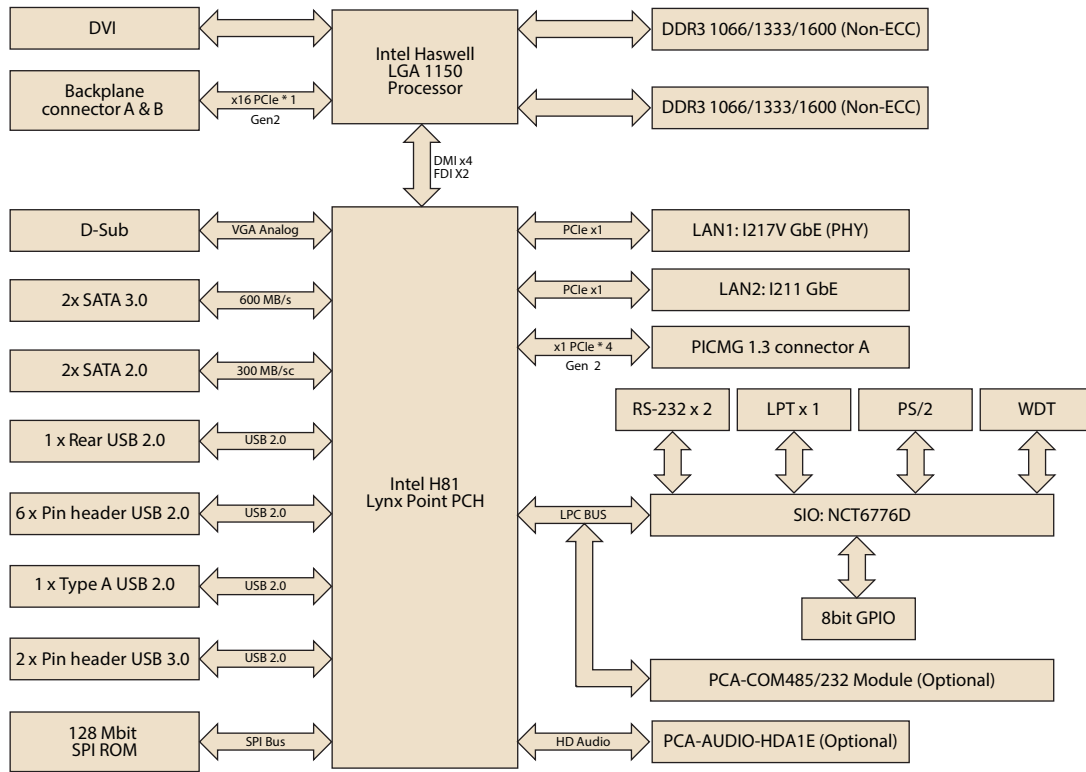
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Specifications

Processor System	CPU	i7-4790S	i7-4790T	i7-4770S	i7-4770TE	i5-4590S	i5-4590T	i5-4570S	i5-4570TE	i3-4360	i3-4350T	i3-4330	i3-4330TE	G3420	G3320TE	G1820	G1820TE						
	Base Frequency	3.2GHz	2.7GHz	3.1GHz	2.3GHz	3.0GHz	2.0GHz	2.9GHz	2.7GHz	3.7GHz	3.1GHz	3.5GHz	2.4GHz	3.2 GHz	2.3 GHz	2.7 GHz	2.2 GHz						
	L3 Cache	8MB	8MB	8MB	8MB	6MB	6MB	6MB	4MB	4MB	4MB	4MB	4MB	3MB	3MB	2MB	2MB						
	SKU/Chipset	Intel H81																					
	BIOS	AMI 128Mbit SPI Flash																					
Bus	PCI-Express	One x16 plus four x1 to backplane																					
Memory	Technology	Dual channel (Non-ECC) DDR3 1066/1333/1600																					
	Max. Cap.	16 GB (8 GB per DIMM)																					
	Socket	DDR3 204-pin SO-DIMM x2																					
Graphics	Controller	Chipset integrated Intel GT2 4600 or GT1 HD graphics (Depends on CPU support)																					
	VRAM	Shared system memory is subject to OS																					
	CRT	Supports resolution up to 1920 x 1200 pixel at 60Hz																					
	DVI-D	Supports resolution up to 1920 x 1200 pixel at 60Hz																					
	Dual Independent Display	VGA+DVI-D																					
Ethernet	Interface	10/100/1000 Mbps																					
	Controller	LAN 1: Intel I217V LAN 2: Intel I211AT																					
	Connector with LED	RJ-45 x 2																					
SATA	Max. Data Transfer Rate	SATA 3.0 x 2 (600 MB/sec), SATA 2.0 x 2 (300 MB/sec)																					
Rear I/O	USB 2.0	1																					
	Ethernet	2																					
	VGA	1																					
	PS/2	1 (PS/2 Y cable supports 1 x keyboard and 1 x mouse)																					
Internal Connector	USB	Seven USB 2.0 (Pin-header x 6 + USB Type A x 1); Two USB 3.0 (Pin header)																					
	SATA	4																					
	DVI-D	1																					
	COM	2																					
	Parallel	1																					
	GPIO	8-bit																					
Watchdog Timer	Output	System reset																					
	Interval	Programmable 1-255 sec																					
Miscellaneous	Audio	Intel High Definition audio interface (required an audio extension module P/N: PCA-AUDIO-HDA1E)																					
Power Requirement	Test Environment	Intel Core i7-4770S (3.1GHz), DDR3 1600 8GB*2																					
	Voltage	12V				5V				3.3V				5VSB				-5V				-12V	
	Current	7.26				1.06				0.42				0				0				0	
Environment		Operating																					
	Temperature/Humidity	0 ~ 60° C (32-140° F); Depends on CPU frequency and cooler solution										Non-operating											
		Operating humidity: 40° C @ 85% RH Non-Condensing																					
Physical	Dimensions	167.64 mm x 126.39 mm (6.6" x 4.98")																					

Block Diagram



Ordering Information

Part Number	PCH	Memory	Backplane	LAN	VGA	DVI-D	COM	SATA III	SATA II	USB 2.0	USB 3.0	S/W Raid	AMT
PCE-3028G2-00A1E	H81	Non-ECC	PCE-3XXX	2	1	1	RS-232 x 2 onboard Optional RS-422/485 x 4 or RS-232 x 4 via module	2	2	8	2	No	No

Note: DVI-D cable is optional

Packing List

Part Number	Description	Quantity
1700003194	Serial ATA HDD data cable	x1
1703150102	Serial ATA HDD power cable	x1
1700008762	2-port COM cable	x1
1700002223	1-port LPT cable	x1
1700060202	Keyboard and mouse Y-cable	x1
1700020277-01	2 ports USB 3.0 cable W/BKT	x1
1700014398	4-port USB cable kit	x1
1703040100	Power Converter	x1
9689000002	Jumper package	x1
2190000902	Warranty Card	x1
2006302800	Startup manual	x1
2066302800	Utility CD	x1

Optional Accessories

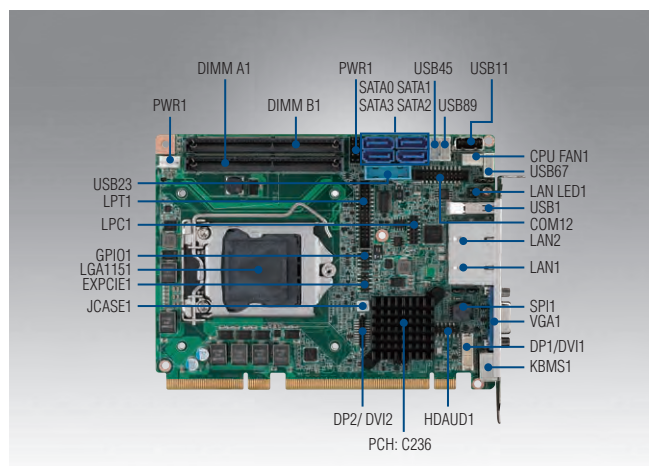
Part Number	Description
PCA-COM485-00A1E	4 x RS-244/485 module
PCA-COM232-00A1E	4 x RS-232 module
PCA-AUDIO-HDA1E	Audio module
PCA-TPM-00A1E	TPM module(Trust Platform management)
1700021831-01	DP to DVI-D cable w/ BKT
1960047831N001	2U cooler for Intel Core i7-4770S, i7-4770TE, i5-4570S, i5-4570TE, i3-4330, i3-4330TE, G3420, G3220TE, G1820, G1820TE
1960053207N001	1.5 U cooler for Intel Core i7-4770S, i7-4770TE, i5-4570S, i5-4570TE, i3-4330, i3-4330TE, G3420, G3220TE, G1820, G1820TE
1960053065N001	1U blower for Intel Core i5-4570S, i5-4570TE, i3-4330, i3-4330TE, G3420, G3220TE, G1820, G1820TE

I/O View



PCE-3029

LGA 1151 6th Gen Intel® Core™ i7/i5/i3
Half-size SHB with PCIe 3.0/
Dual independent display/Dual GbE LAN/
SATA III/m-SATA/ USB 3.0



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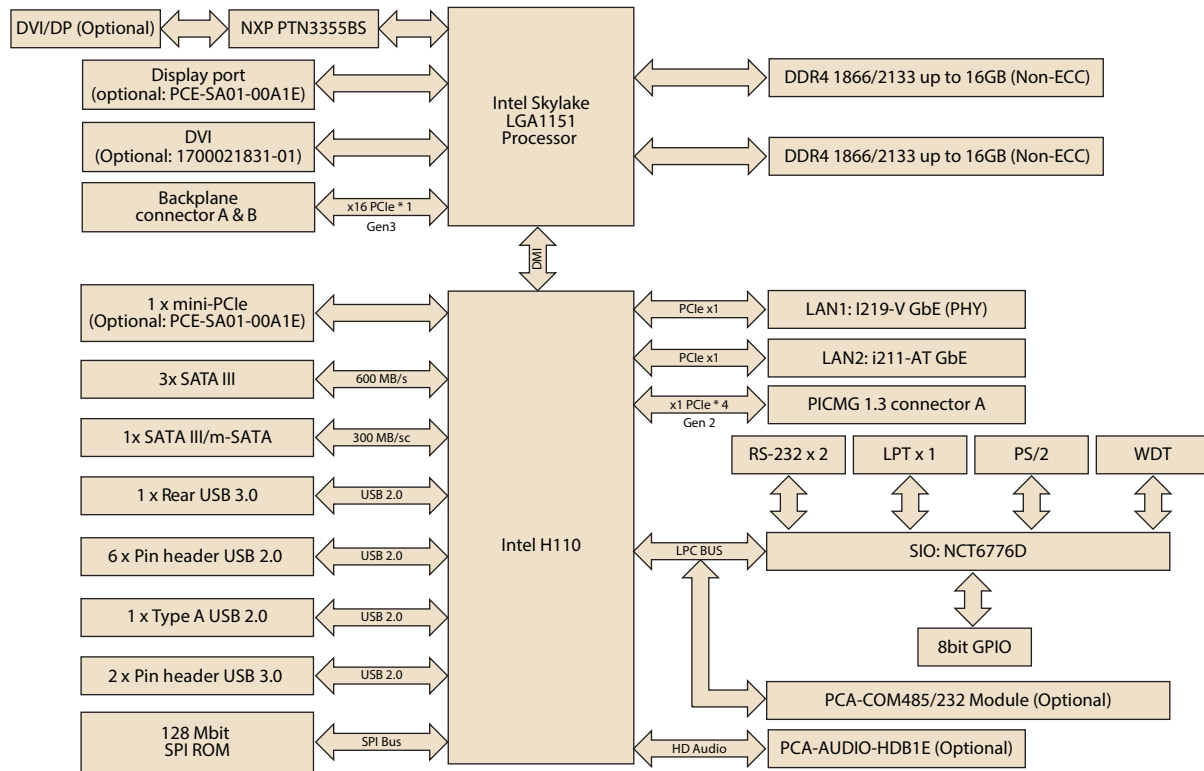
Features

- Complies with PICMG 1.3
- Supports Intel® Core™ i7/i5/i3/Celeron/Pentium processor with H110 chipset
- Dual Channel (Non-ECC) DDR4 1866/2133 up to 32 GB
- Supports USB 3.0, SATA III, PCIe 3.0
- Supports CRT and DVI-D/DP (optional) display
- Supports Advantech TPM module (Optional)
- Supports SUSIAccess and Embedded Software APIs

Specifications

Processor System	CPU	i7-6700	i7-6700TE	i5-6500	i5-6500TE	i3-6100	i3-6100TE	G4400	G4400TE	G3900	G3900TE
	Base Frequency	3.4GHz	2.4GHz	3.2GHz	2.3GHz	3.7GHz	2.7GHz	3.3GHz	2.9GHz	2.8GHz	2.6GHz
	L3 Cache	8MB	8MB	6MB	6MB	4MB	4MB	3MB	3MB	2MB	2MB
	SKU/Chipset	Intel H110									
Bus	BIOS	AMI 128Mbit SPI Flash									
	PCI-Express	One x16 (Gen 3) plus four x1 (Gen 3) to backplane									
Memory	Technology	Dual channel (Non-ECC) DDR4 1866/2133 up to 32 GB									
	Max. Cap.	32 GB (16 GB per DIMM)									
	Socket	DDR4 260-pin SO-DIMM x2									
Graphics	Controller	Chipset integrated Intel HD Graphics									
	VRAM	Shared system memory is subjected to OS									
	CRT	Supports resolution up to 1920 x 1200 pixel at 60Hz									
	Display port	Supports resolution up to 4096 x 2304 pixel at 60Hz									
	DVI-D	Supports resolution up to 1920 x 1200 pixel at 60Hz									
Ethernet	Dual Independent Display	VGA+ DVI-D/DP (Optional)									
	Interface	10/100/1000 Mbps									
	Controller	LAN 1: Intel I219V LAN 2: Intel I211AT									
	Connector with LED	RJ-45 x 2									
Rear I/O	USB 3.0	1									
	Ethernet	2									
	VGA	1									
	PS/2	1 (PS/2 Y cable supports 1 x keyboard and 1 x mouse)									
Internal Connector	USB	7 USB 2.0 (Pin-header *6 + USB Type A *1); 2 USB 3.0 (Pin header)									
	SATA/m-SATA	SATA III x4 (600MB/sec) or SATA III x3 (600MB/sec)+m-SATA x1									
	mini-PCIe	(Optional: PCE-SA01-00A1E, PCIe Gen 2.0)									
	DVI-D	1									
	DP	1									
	COM	2 (RS-232)									
	Parallel	1 (SPP/EPP)									
	GPIO	8 bits									
Watchdog Timer	Output	System reset									
	Interval	Programmable 1-255 sec									
Miscellaneous	Audio	Intel High Definition audio interface (required an audio extension module P/N: PCA-AUDIO-HDB1E)									
Power Requirement	Test Environment	TBD									
	Voltage	TBD									
	Current	TBD									
Environment	Temperature/Humidity	Operating					Non-operating				
		0 ~ 60° C(32~140° F); Depends on CPU frequency and cooler solution					-40 ~ 85°C and 60° C @ 95% RH Non-Condensing				
		Operating humidity: 40° C @ 85% RH Non-Condensing									
Phvsical	Dimensions	167.64 mm x 126.39 mm (6.6" x 4.98")									

Board Diagram



Ordering Information

Part Number	PCH	Memory	Backplane	LAN	VGA	DVI-D	DP	COM	SATA III/ m-SATA	mini-PCIe	USB 2.0	USB 3.0	S/W RAID	AMT
PCE-3029G2-00A1E	H110	Non-ECC	PCE-3BXX	2	1	1*	1**	2 RS-232 4 RS-422/485 or 4 RS-232 (optional)***	4/0 3/1	1**	7	3	No	No

* DVI-D cable (1700021831-01) is optional.

** PCE-SA01-00A1E is required. PCE-SA01-00A1E is compatible with IPC-3026/IPC-6806S/ACP-4D00/ACP-4020, but not compatible with IPC-3012.

***PCA-COM485-00A1E is required for additional 4 RS422/485; PCA-COM232-00A1E is required for additional 4 RS232.

Optional Accessories

Part Number	Description
PCA-COM485-00A1E	4 x RS-244/485 module
PCA-COM232-00A1E	4 x RS-232 module
PCA-AUDIO-HDB1E	Audio module with Realtek ACL892
PCA-TPM-00A1E	TPM module (Trust Platform management)
PCE-SA01-00A1E	IO extension module
1700021831-01	DP to DVI-D cable w/ BKT
1960053207N001	1.5U cooler for Intel Core i7/i5/i3/Pentium/Celeron
1960053065N001	1U cooler for Intel Core i7/i5/i3/Pentium/Celeron

Packing List

Part Number	Description	Quantity
1700003194	Serial ATA HDD data cable	x1
1700022749-11	Serial ATA HDD power cable	x1
1700008762	2-port COM cable	x1
1700002223	1-port LPT cable	x1
1700060202	Keyboard and mouse Y-cable	x1
1700020277-01	2 ports USB 3.0 cable W/BKT	x1
1700014398	4-port USB cable kit	x1
1703040100	Power Converter	x1
9689000002	Jumper package	x1
-	Startup manual	x1
-	Utility CD	x1

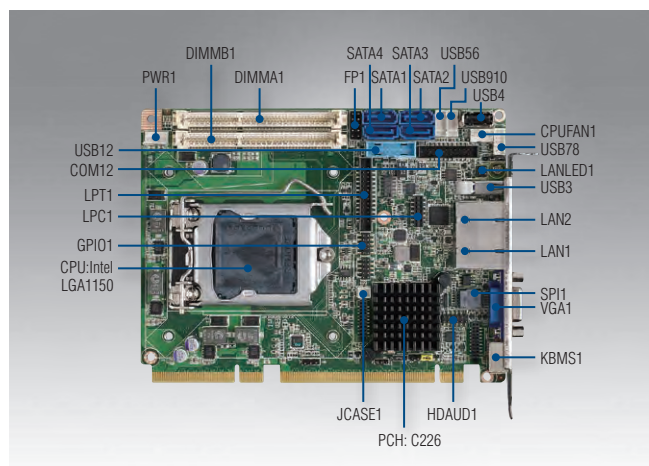
Bracket View



PCE-3029G2-00A1E

PCE-4128

LGA 1150 4th Gen Intel® Xeon® and Core™ i7/i5/i3 Half-size SHB with PCIe 3.0/Triple independent display/Dual GbE LAN/SATA 3.0/m-SATA/ USB 3.0



Features

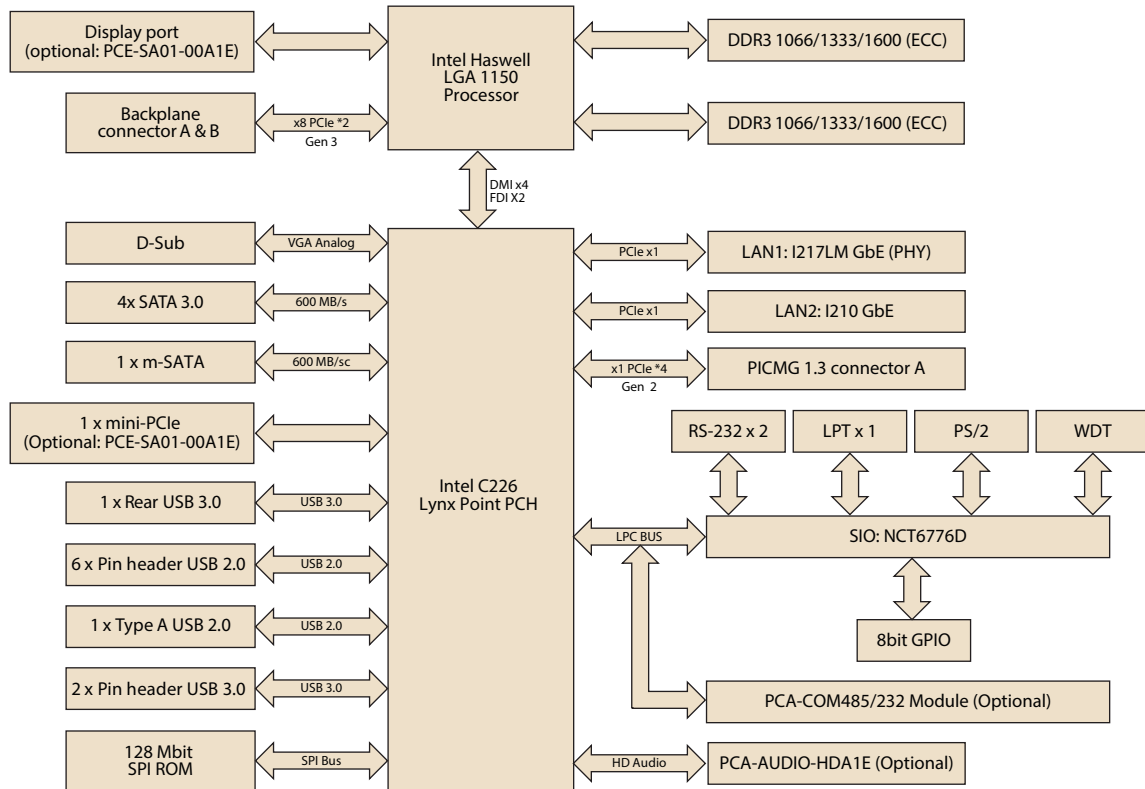
- Complies with PICMG 1.3
- Supports Intel Xeon E3 1200v3 series, Core i7/i5/i3 LGA1150 processors with C226
- Dual Channel DDR3 1066/1333/1600 up to 16 GB
- Supports PCIe 3.0, USB 3.0, SATA3.0, SW Raid 0, 1, 5, 10
- Supports triple displays
- Support dual 10/100/1000 Mbps Ethernet
- Supports out-of-band remote management with AMT9.0
- Supports Advantech TPM module (LPC I/O)
- Supports SUSIAccess and Embedded Software APIs

CE FCC

Specifications

Processor System	CPU	E3-1275v3	E3-1225v3	E3-1268v3	i5-4570TE	i3-4360	i3-4330	i3-4330TE	G3420	G3320TE	G1820	G1820TE
	Base Frequency	3.5GHz	3.2GHz	2.3GHz	2.7GHz		3.5GHz	2.4GHz	3.2 GHz	2.3 GHz	2.7 GHz	2.2 GHz
	L3 Cache	8MB	8MB	8MB	4MB		4MB	4MB	3MB	3MB	2MB	2MB
	SKU/Chipset	Intel C226										
	BIOS	AMI 128Mbit SPI Flash										
Bus	PCI-Express	Two x8 or one x16, plus four x1 to backplane										
Memory	Technology	Dual channel DDR3 ECC 1066/1333/1600 MHz (ECC function enable depends on processor support)										
	Max. Cap.	16 GB (8 GB per DIMM)										
	Socket	DDR3 204-pin SO-DIMM X2										
Graphics	Controller	Chipset integrated Intel GT2 P4600 or GT2 4600 or GT1 HD graphics (Depends on CPU support)										
	VRAM	Shared system memory is subject to OS										
	CRT	Supports resolution up to 1920 x 1200 pixel at 60MHz										
	DP	Supports resolution up to 3840 x 2160 @ 60Hz										
Ethernet	Triple Display	CRT + DP (Optional: PCE-SA01-00A1E)										
	Interface	10/100/1000 Mbps										
	Controller	LAN 1: Intel I217LM LAN 2: Intel I210AT										
Rear I/O	Connector with LED	RJ45 x 2										
	USB 3.0	1										
	Ethernet	2										
	VGA	1										
Internal Connector	PS/2	1 (PS/2 Y cable supports 1 x keyboard and 1 x mouse)										
	USB	Seven USB2.0 (6 pin headers + 1 USB Type A); Three USB3.0 (1 on rear IO + 2 pin header)										
	SATA 3.0	4 (600 MB/sec, supports S/W RAID 0,1, 5, 10)										
	COM	2										
	Parallel	1										
Watchdog Timer	GPIO	8bit										
	Output	System reset										
Miscellaneous	Interval	Programmable 1-255 sec										
	Audio	Intel High Definition audio interface (required an audio extension module P/N: PCA-AUDIO-HDA1E)										
Power Requirement	Test environment	Intel Xeon E3-1275 v3 (3.5GHz), DDR3 1600 8GB *2										
	Voltage	12V	5V	3.3V	5VSB		-5V	-12V				
	Current	7.36	0.96	0.83	0.13		0	0				
Environment	Operating	Non-operating										
	Temperature/Humidity	0 ~ 60° C(32~140° F); Depends on CPU frequency and cooler solution Operating humidity: 40° C @ 85% RH Non-Condensing										
Physical	Dimensions	167.64 mm x 126.39 mm (6.6" x 4.98")										

Block Diagram



*Display type depends on optional stack board

Ordering Information

Part Number	PCH	Memory	Backplane	LAN	VGA	DP	COM	SATA III	USB 2.0	USB 3.0	m-SATA	mini-PCIe	S/W Raid	AMT
PCE-4128G2-00A1E	C226	ECC	PCE-3BXX PCE-4BXX	2	1	1*	RS-232 x2 onboard Optional RS-422/485 x4, or RS-232 x4 via module	4	7	3	1	1*	Yes	Yes

*Optional: PCE-SA01-00A1E. PCE-SA01-00A1E is compatible with IPC-3026/IPC-6806S/ACP-4D00/ACP-4020, but not compatible with IPC-3012.

Packing List

Part Number	Description	Quantity
1700003194	Serial ATA HDD data cable	x1
1703150102	Serial ATA HDD power cable	x1
1700008762	2-port COM cable	x1
1700002223	1-port LPT cable	x1
1700060202	Keyboard and mouse Y-cable	x1
1700014398	4-port USB cable kit	x1
1700020277-01	2 ports USB3.0 cable W/BKT	x1
1703040100	Power converter	x1
9689000002	Jumper package	x1
2190000902	Warranty Card	x1
2006302800	Startup manual	x1
2066302800	Utility CD	x1

Optional Accessories

Part Number	Description
PCA-COM485-00A1E	4 x RS-244/485 module
PCA-COM232-00A1E	4 x RS-232 module
PCA-AUDIO-HDA1E	Audio module with Realtek ALC-888
PCA-AUDIO-HDB1E	Audio module with Realtek ALC-892
PCA-TPM-00A1E	TPM module (Trust Platform management)
PCE-SA01-00A1E	I/O extension stack board
1960047831N001	2U cooler for Xeon E3-1275v3, E3-1225v3, E3-1268v3, i7-4770S, i7-4770TE, i5-4570S, i5-4570TE, i3-4330, i3-4330TE, G3420, G3220TE, G1820, G1820TE
1960053207N001	1.5U cooler for i7-4770S, i7-4770TE, i5-4570S, i5-4570TE, i3-4330, i3-4330TE, G3420, G3220TE, G1820, G1820TE
1960053065N001	1U blower for i5-4570S, i5-4570TE, i3-4330, i3-4330TE, G3420, G3220TE, G1820, G1820TE

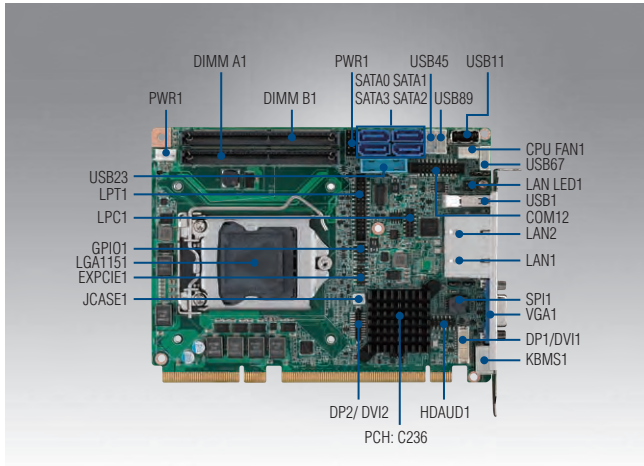
I/O View



PCE-4128G2-00A1E

PCE-4129

LGA 1151 6th Gen Intel® Xeon® and Core™ i7/i5/i3 Half-size SHB with PCIe 3.0/Triple independent display/Dual GbE LAN/SATA III/m-SATA/ USB 3.0



CE FCC

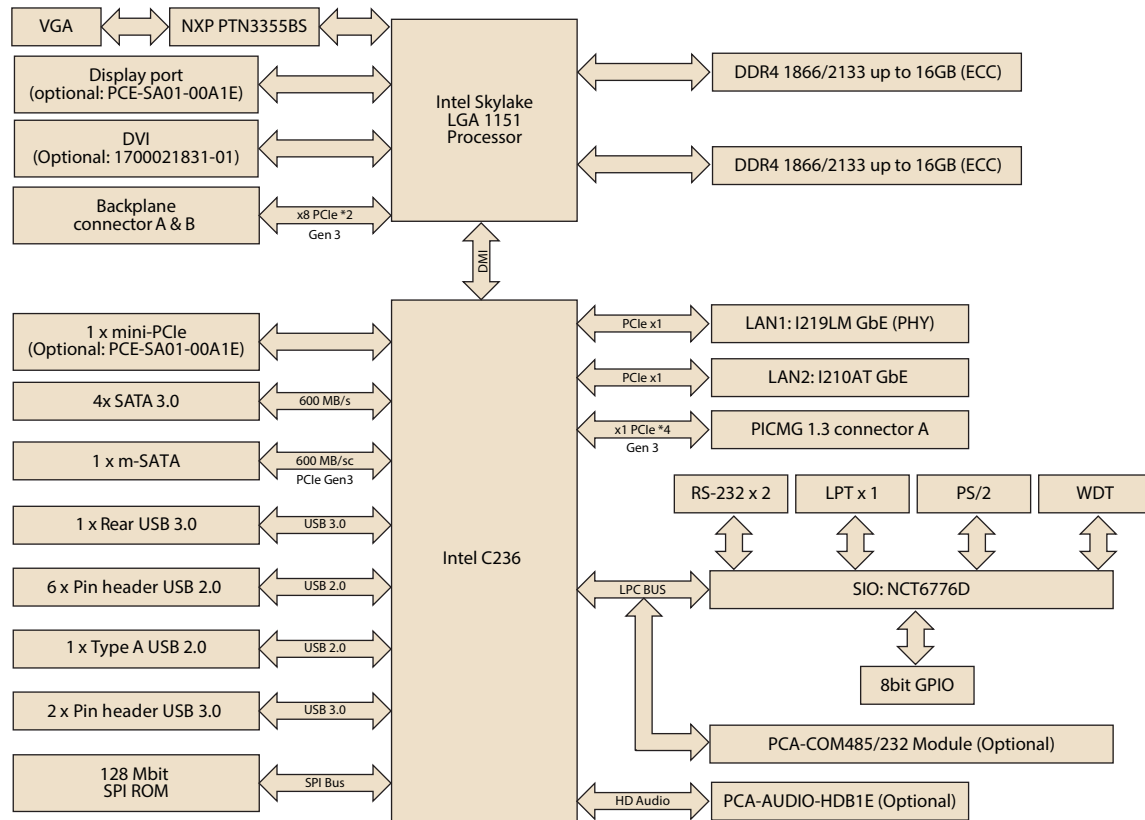
Features

- Complies with PICMG 1.3
- Supports Intel Xeon E3 1200v5 series, Core i7/i5/i3 LGA1151 processors with C236
- Dual Channel DDR4 1866/2133 (ECC) up to 32 GB
- Supports PCIe 3.0, USB 3.0, SATA3.0, SW RAID 0, 1, 5, 10
- Supports triple displays: VGA+DVI-D (Optional) + DP (Optional)
- Supports out-of-band remote management with AMT9.0
- Supports Advantech TPM module (Optional)
- Supports SUSIAccess and Embedded Software APIs

Specifications

Processor System	CPU	E3-1275v5	E3-1225v5	E3-1268Lv5	i7-6700	i7-6700TE	i5-6500	i5-6500TE	i3-6100	i3-6100TE	G4400	G4400TE	G3900	G3900TE
	Base Frequency	3.6GHz	3.3GHz	2.4GHz	3.4GHz	2.4GHz	3.2GHz	2.3GHz	3.7GHz	2.7GHz	3.3GHz	2.9GHz	2.8GHz	2.6GHz
	L3 Cache	8MB	6MB	8MB	8MB	8MB	6MB	6MB	4MB	4MB	3MB	3MB	2MB	2MB
	SKU/Chipset	Intel C236												
	BIOS	AMI 128Mbit SPI Flash												
Bus	PCI-Express	Two x8 or one x16, plus four x1 to backplane (PCIe Gen 3.0)												
Memory	Technology	Dual channel DDR4 ECC 1866/2133 MHz (ECC function enable depends on processor support)												
	Max. Cap.	32 GB (16 GB per DIMM)												
	Socket	DDR4 260-pin SO-DIMM X2												
Graphics	Controller	Chipset integrated Intel HD Graphics												
	VRAM	Shared system memory is subjected to OS												
	CRT	Supports resolution up to 1920 x 1200 pixel at 60MHz												
	DVI-D	Supports resolution up to 1920 x 1200 pixel at 60MHz												
	DP	Supports resolution up to 4096 x 2304 @ 60Hz												
	Triple Display	CRT + DP (Optional: PCE-SA01-00A1E) + DVI-D (Optional: 1700021831-01)												
Ethernet	Interface	10/100/1000 Mbps												
	Controller	LAN 1: Intel I219LM LAN 2: Intel I210AT												
	Connector with LED	RJ45 x 2												
Rear I/O	USB 3.0	1												
	Ethernet	2												
	VGA	1												
	PS/2	1 (PS/2 Y cable supports 1 x keyboard and 1 x mouse)												
Internal Connector	USB	7 USB2.0 (Pin headers*6 + USB Type A*1); 2 USB3.0 (Pin header)												
	SATA 3.0	4 (600 MB/sec, supports S/W RAID 0,1, 5, 10)												
	m-SATA	1 (600 MB/sec)												
	mini-PCIe	1 (Optional: PCE-SA01-00A1E, PCIe Gen 2.0)												
	COM	2 (RS-232)												
	Parallel	1 (SPP/EPP)												
	GPIO	8 bits												
Watchdog Timer	Output	System reset												
	Interval	Programmable 1-255 sec												
Miscellaneous	Audio	Intel High Definition audio interface (required an audio extension module P/N: PCA-AUDIO-HDB1E)												
Power Requirement	Test environment	TBD												
	Voltage	TBD												
	Current	TBD												
Environment		Operating								Non-operating				
	Temperature/Humidity	0 ~ 60° C (32~140° F); Depends on CPU frequency and cooler solution								-40 ~ 85° C and 60° C @ 95% RH				
Physical														
	Dimensions	Operating humidity: 40° C @ 85% RH Non-Condensing												
		167.64 mm x 126.39 mm (6.6" x 4.98")												

Board Diagram



Ordering Information

Part Number	PCH	Memory	Backplane	LAN	VGA	DVI-D	DP	COM	SATA III	USB 2.0	USB 3.0	m-SATA	mini-PCIe	S/W RAID	AMT
PCE-4129G2-00A1E	C236	ECC	PCE-3BXX PCE-4BXX	2	1	1*	1**	2 RS-232 4 RS-422/485 or 4 RS-232 (optional)***	4	7	3	1	1**	Yes	Yes

* DVI-D cable (1700021831-01) is optional.

** PCE-SA01-00A1E is required. PCE-SA01-00A1E is compatible with IPC-3026/IPC-6806S/ACP-4D00/ACP-4020, but not compatible with IPC-3012.

*** PCA-COM485-00A1E is required for additional 4 RS422/485; PCA-COM232-00A1E is required for additional 4 RS232.

Optional Accessories

Part Number	Description
PCA-COM485-00A1E	4 x RS-244/485 module
PCA-COM232-00A1E	4 x RS-232 module
PCA-AUDIO-HDB1E	Audio module with Realtek ALC-892
PCA-TPM-00A1E	TPM module (Trust Platform management)
PCE-SA01-00A1E	I/O extension stack board
1700021831-01	DP to DVI-D cable w/ BKT
1960053207N001	1.5U cooler for Intel Core i7/i5/i3/Pentium/Celeron
1960053065N001	1U blower for Intel Core i7/i5/i3/Pentium/Celeron

Packing List

Part Number	Description	Quantity
1700003194	Serial ATA HDD data cable	x1
1700022749-11	Serial ATA HDD power cable	x1
1700008762	2-port COM cable	x1
1700002223	1-port LPT cable	x1
1700060202	Keyboard and mouse Y-cable	x1
1700014398	4-port USB cable kit	x1
1700020277-01	2 ports USB3.0 cable W/BKT	x1
1703040100	Power converter	x1
9689000002	Jumper package	x1
-	Startup manual	x1
-	Utility CD	x1

Bracket View

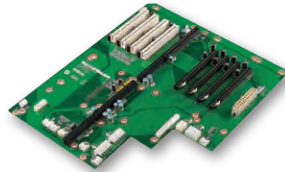


PCE-4129G2-00A1E

14-slot Rackmount Chassis Backplanes

PCE-7B09R-04A1E

- 9-slot BP for 14-slot chassis
- Segment: 1
- One CPU card slot
- PCIe slot: One x8, Three x4
- PCI-X slot: N/A
- PCI slot: Four 32/33
- Compatible with IPC chassis: IPC-510, IPC-610, IPC-611, ACP- 4000, ACP-4010, ACP-4320, ACP-4340, and ACP-4360



20-slot Rackmount Chassis Backplanes

PCE-7B17-00A1E

- 17 slot BP for 20-slot chassis
- Segments: 1
- One CPU card slot
- PCIe slot: five x8, eleven x4
- PCI-X slot: N/A
- PCI slot: N/A
- Compatible with IPC chassis: IPC-623, IPC-622



PCE-7B19-88B1E

- 19-slot BP for 20-slot chassis
- Segments: 1
- One CPU card slot
- PCIe slot: Two X8
- PCI-X slot: Eight 64/100
- PCI slot: Eight 32/33
- Compatible with IPC chassis: IPC-622/623, ACP-5360, and ACP-7360



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PICMG 1.3 Full-Size SHB Backplanes

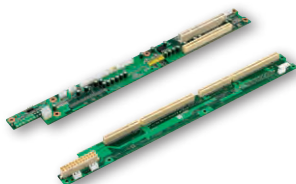
Mainstream Backplanes

Compatible with PCE-5000 Series System Host Board

1U Butterfly Backplanes

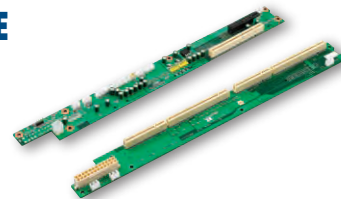
PCE-5B03V-01A1E

- 3-slot Butterfly BP for 1U chassis
- Segments: 1
- One CPU card slot
- PCIe slot: One x16
- PCI-X slot: N/A
- PCI slot: One 32/33
- Compatible with IPC chassis: ACP-1320, ACP-1010



PCE-5B03V-00A1E

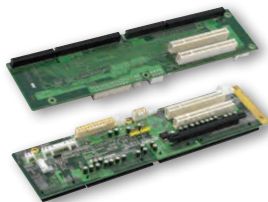
- 3-slot Butterfly BP for 1U chassis
- Segments: 1
- One CPU card slot
- PCIe slot: One x16; One x4
- PCI-X slot: N/A
- PCI slot: N/A
- Compatible with IPC chassis: ACP-1320, ACP-1010



2U Butterfly Backplanes

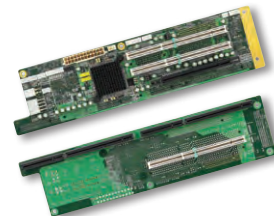
PCE-5B06V-04A1E

- 6-slot Butterfly BP for 2U chassis
- Segments: 1
- One CPU card slot
- PCIe slot: One x16
- PCI-X slot: N/A
- PCI slot: Four 32/33
- Compatible with IPC chassis: ACP-2000EBP and IPC-602EBP



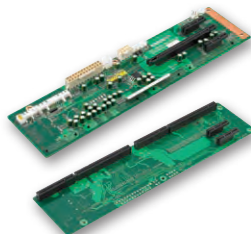
PCE-5B05V-30B1E

- 5-slot Butterfly BP for 2U chassis
- Segments: 1
- One CPU card slot
- PCIe slot: One x16
- PCI-X slot: Two 64/100; one 64/133
- PCI slot: N/A
- Compatible with IPC chassis: ACP-2000EBP and IPC-602EBP



PCE-5B06V-00A1E

- 6-slot Butterfly BP for 2U chassis
- Segments: 1
- One CPU card slot
- PCIe slot: One x16; Four x1
- PCI-X slot: N/A
- PCI slot: N/A
- Compatible with IPC chassis: ACP-2000EBP and IPC-602EBP



6-slot Wallmount Chassis Backplanes

PCE-5B06-00A1E

- 6-slot BP for 6-slot chassis
- Segments: 1
- One CPU card slot
- PCIe slot: One x16; Four x1
- PCI-X slot: N/A
- PCI slot: N/A
- Compatible with IPC chassis: IPC-6606, and IPC-6806W



PCE-5B06-04A1E

- 6-slot BP for 6-slot chassis
- Segments: 1
- One CPU card slot
- PCIe slot: One x16
- PCI-X slot: N/A
- PCI slot: Four 32/33
- Compatible with IPC chassis: IPC-6606, and IPC-6806W



PCE-5B06-03A1E

- 6 slot BP for 6 slot chassis
- Segments: 1
- One CPU card slot
- PCIe slot: One x16; One x4
- PCI-X slot: N/A
- PCI slot: Three PCI 32/33
- Compatible with IPC chassis: IPC-6606, and IPC-6806W



8-slot Wallmount Chassis Backplanes

PCE-5B07-04A1E

- 7-slot BP for 8-slot chassis
- Segments: 1
- One CPU card slot
- PCIe slot: One x16; One x4
- PCI-X slot: N/A
- PCI slot: Four 32/33
- Compatible with IPC chassis: IPC-6608 and IPC-6908



PCE-5B08-02A1E

- 8-slot BP for 8-slot chassis
- Segments: 1
- One CPU card slot
- PCIe slot: One x16; Four x1
- PCI-X slot: N/A
- PCI slot: Two 32/33
- Compatible with IPC chassis: IPC-6608 and IPC-6908



10-slot Wallmount Chassis Backplanes

PCE-5B09-06A1E

- 9-slot BP for 10-slot chassis
- Segments: 1
- One CPU card slot
- PCIe slot: One x16; One x4
- PCI-X slot: N/A
- PCI slot: Six 32/33
- Compatible with IPC chassis: IPC-7132, IPC-510, IPC-610, ACP-4000, ACP-4010, ACP-4320, and ACP-4360



PCE-5B09-04A1E

- 9-slot for 10-slot chassis
- Segments: 1
- One CPU card slot
- PCIe slot: One x16, three x4
- PCI-X slot: N/A
- PCI slot: Four 32/33
- Compatible with IPC chassis: IPC-7132, IPC-510, IPC-610, ACP-4000, ACP-4010, ACP-4320, and ACP-4360



14-slot Rackmount Chassis Backplanes

PCE-5B10-04A1E

- 10-slot BP for 14-slot chassis
- Segments: 1
- One CPU card slot
- PCIe slot: One x16; Four x1
- PCI-X slot: N/A
- PCI slot: Four 32/33
- Compatible with IPC chassis: IPC-510, IPC-610, IPC-611, ACP-4000, ACP-4010, ACP-4320 and ACP-4360



PCE-5B12-64C1E

- 12-slot BP for 14-slot Chassis
- Segments: 1
- One CPU card slot
- PCIe slot: One x16
- PCI-X slot: Two 64/100; Four 64/66
- PCI slot: Four 32/33
- Compatible with IPC chassis: IPC-510, IPC-610, IPC-611, ACP-4000, ACP-4010, ACP-4320, and ACP-4360



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PICMG 1.3 Full-Size SHB Backplanes

14-slot Rackmount Chassis Backplanes

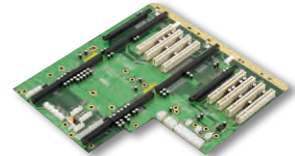
PCE-5B13-08A1E

- 13-slot BP for 14-slot chassis
- Segments: 1
- One CPU card slot
- PCIe slot: One x16; Three x1
- PCI-X slot: N/A
- PCI slot: Eight 32/33
- Compatible with IPC chassis: IPC-510, IPC-610, IPC-611, ACP-4000, ACP-4010, ACP-4320, and ACP-4360



PCE-5B12D-04A1E

- 12-slot BP for 14-slot chassis
- Segments: 2
- Each segment:
 - One CPU card slot
 - PCIe slot: One x16
 - PCI-X slot: N/A
 - PCI slot: Four 32/33
- Compatible with IPC chassis: ACP-4010



PCE-5B12-07A1E

- 13-slot BP for 14-slot chassis
- Segment: 1
- One CPU card slot
- PCIe slot: One x16, Three x4
- PCI-X slot: 0
- PCI slot: Seven 32/33
- Compatible with IPC chassis: IPC-510, IPC-610, IPC-611, ACP-4000, ACP-4320, ACP-4360, ACP-4010



20-slot Rackmount Chassis Backplanes

PCE-5B18-88B1E

- 18-slot BP for 20-slot chassis
- Segments: 1
- One CPU card slot
- PCIe slot: One x16
- PCI-X slot: Eight 64/66
- PCI slot: Eight 32/33
- Compatible with IPC chassis: IPC-623, ACP-5360 and ACP-7360



PCE-5B16Q-02A1E

- 16-slot BP for 20-slot chassis
- Segments: 4
- Each segment:
 - One CPU card slot
 - PCIe slot: One x16
 - PCI-X slot: N/A
 - PCI slot: Two 32/33
- Compatible with IPC chassis: IPC-623, ACP-5360, ACP-7360



PCE-5B12-00A1E

- 12-slot BP for 20-slot chassis
- Segments: 1
- One CPU card slot
- PCIe slot: Ten x16 and one x4
- PCI-X slot: N/A
- PCI slot: N/A
- Compatible with IPC chassis: IPC-623, IPC-622



PCE-5B19-00A1E

- 19 slot BP for 20-slot chassis
- Segments: 1
- One CPU card slot
- PCIe slot: Seventeen X16 and One X4
- PCI-X slot: N/A
- PCI slot: N/A
- Compatible with IPC chassis: IPC-622/623

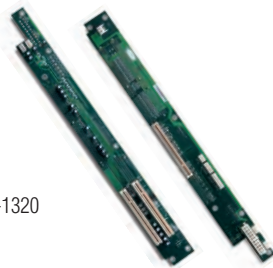


PICMG 1.0 Full-Size SBC Backplanes

1U Butterfly Backplanes

PCA-6103P2V-0A2E

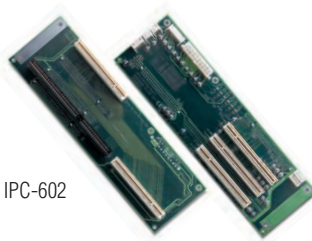
- Segments: 1
- Slots: 2 PCI, 1 CPU
- PCI bus: 32-bit/33 MHz
- Size: 40 x 400 mm (1.57" x 15.75")
- Ordering Information: 989K610302E
- Compatible with IPC chassis: ACP-1010, ACP-1320



2U Butterfly Backplanes

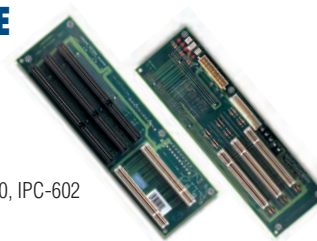
PCA-6105P4V-0B3E

- Segments: 1
- Slots: 4 PCI, 1 PICMG
- PCI bus: 32-bit/33 MHz
- Size: 80 x 260 mm (3.15" x 10.23")
- Ordering Information: 989K610512E
- Compatible with IPC Chassis: ACP-2000, IPC-602



PCA-6106P3V-0B2E

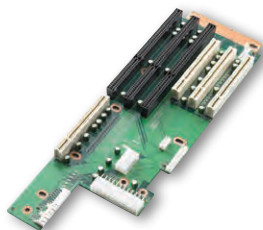
- Segments: 1
- Slots: 1 ISA, 3 PCI, 2 PICMG
- PCI bus: 32-bit/33 MHz
- Size: 80 x 260 mm (3.15" x 10.23")
- Ordering Information: 989K610622E
- Compatible with IPC Chassis: ACP-2000, IPC-602



5-slot PCI/ISA Backplanes

PCA-6105P3-5A1E

- Segments: 1
- Slots: 1 ISA, 2 PCI, 1 PICMG, 1 PCI/ISA
- Size: 106.5 mm x 327.66 mm (4.19" x 12.9")
- Ordering Information: PCA-6105P3-5A1E
- Compatible with IPC Chassis: IPC-6025



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PICMG 1.0 Full-Size SBC Backplanes

6-slot PCI/ISA Backplanes

PCA-6106P4-0A2E

- Segments: 1
- Slots: 4 PCI, 2 PICMG
- Size: 142 x 270 mm (5.59" x 10.63")
- Ordering Information: PCA-6106P4-0A2E
- Compatible with IPC Chassis: IPC-6806W, IPC-6806, IPC-6606, IPC-6006



PCA-6106P3-0D2E

- Segments: 1
- Slots: 2 ISA, 2 PCI, 1 PICMG/PCI, 1 PICMG
- Size: 142 x 270 mm (5.59" x 10.63")
- Ordering Information: PCA-6106P3-0D2E
- Compatible with IPC Chassis: IPC-6806W, IPC-6806, IPC-6606, IPC-6006



8-slot PCI/ISA Backplanes

PCA-6108P6-0C1E

- Segments: 1
- Slots: 1 ISA, 5 PCI, 1 PICMG/PCI, 1 PICMG
- Size: 180 x 260 mm (7.09" x 10.24")
- PCI bridge: PI7C8152BMAE
- Primary PCI: 3 slots; Secondary PCI: 3 slots
- Ordering Information: PCA-6108P6-0C1E
- Compatible with IPC Chassis: IPC-6908, IPC-6608



PCA-6108P4-0C2E

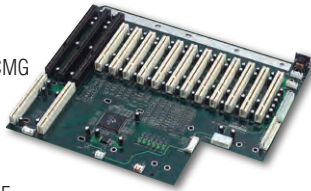
- Segments: 1
- Slots: 3 ISA, 3 PCI, 1 PICMG/PCI, 1 PICMG
- Size: 180 x 260 mm (7.09" x 10.24")
- Ordering Information: PCA-6108P4-0C2E
- Compatible with IPC Chassis: IPC-6908, IPC-6608



14-slot PCI/ISA Backplanes

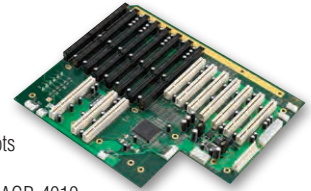
PCA-6114P12-0B3E

- Segments: 1
- Slots: 1 ISA, 11 PCI, 1 PICMG/PCI, 1 PICMG
- Size: 315 x 300 mm (12.4" x 11.8")
- PCI bridge: Pericom PI7C8150BMAE
- Primary PCI: 3 slots; Secondary PCI: 9 slots
- Ordering Information: PCA-6114P12-0B3E
- Compatible with IPC Chassis: ACP-4000, ACP-4010, ACP-4320, ACP-4340, ACP-4360, IPC-510, IPC-610, IPC-611



PCA-6114P7-0E1E

- Segments: 1
- Slots: 4 ISA, 6 PCI, 3 PICMG, 1 PCI/ISA
- Size: 315 x 260 mm (12.4" x 10.24")
- PCI bridge: PI7C8152BMAE
- Primary PCI: 3 slots; Secondary PCI: 4 slots
- Ordering Information: PCA-6114P7-0E1E
- Compatible with IPC Chassis: ACP-4000, ACP-4010, ACP-4320, ACP-4340, ACP-4360, IPC-510, IPC-610, IPC-611



PCA-6114P4-0C2E

- Segments: 1
- Slots: 8 ISA, 4 PCI, 2 PICMG
- Size: 315 x 260 mm (12.4" x 10.24")
- Ordering Information: PCA-6114P4-0C2E
- Compatible with IPC Chassis: ACP-4000, ACP-4010, ACP-4320, ACP-4340, ACP-4360, IPC-510, IPC-610, IPC-611
- When installing ACP-4320, ACP-4340, ACP-4360 and IPC-510 chassis, a 1U cooler is required



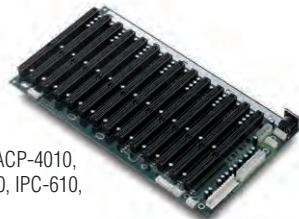
PCA-6113P4R-0C2E

- Segments: 1
- Slots: 7 ISA, 4 PCI, 2 PICMG
- Size: 315 x 260 mm (12.4" x 10.24")
- Ordering Information: PCA-6113P4R-0C2E
- Compatible with IPC Chassis: ACP-4000, ACP-4010, ACP-4320, ACP-4340, ACP-4360, IPC-510, IPC-610, IPC-611



PCA-6114-0B2E

- Segments: 1
- Slots: 14 ISA
- Size: 315 x 175 mm (12.4" x 6.89")
- Ordering Information: PCA-6114-0B2E
- Compatible with IPC Chassis: ACP-4000, ACP-4010, ACP-4320, ACP-4340, ACP-4360, IPC-510, IPC-610, IPC-611



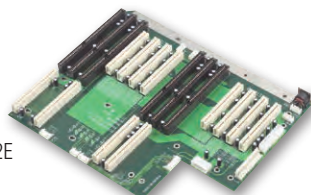
PCA-6114P10-0B2E

- Segments: 1
- Slots: 2 ISA, 10 PCI, 2 PICMG
- Size: 315 x 260 mm (12.4" x 10.24")
- PCI bridge: Pericom PI7C8150BMAE
- Primary PCI: 3 slots; Secondary PCI: 7 slots
- Ordering Information: PCA-6114P10-0B2E
- Compatible with IPC Chassis: ACP-4000, ACP-4010, ACP-4320, ACP-4340, ACP-4360, IPC-510, IPC-610, IPC-611



PCA-6113DP4-0A2E

- Segments: 2
- Slots: 2 ISA, 7 PCI, 1 PICMG/PCI, 3 PICMG
- Size: 315 x 260 mm (12.4" x 10.24")
- Ordering Information: PCA-6113DP4-0A2E
- Compatible with IPC Chassis: Only for ACP-4010
- Compatible with IPC Chassis: ACP-4010



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PICMG 1.0 Full-Size SBC Backplanes

20-slot PCI/ISA Backplanes

PCA-6120P18-0A2E

- Segments: 1
- Slots: 1 ISA, 17 PCI, 1 PICMG/PCI, 1 PICMG
- Size: 417 x 260 mm (16.42" x 10.24")
- PCI bridge: Three Pericom PI7C8150BMAE
- Secondary: 6 slot/6 slot/6 slot
- Ordering Information: PCA-6120P18-0A2E
- Compatible with IPC Chassis : IPC-623, IPC-622



PCA-6119P7-0C1E

- Segments: 1
- Slots: 10 ISA, 7 PCI, 2 PICMG
- Size: 417 x 260 mm (16.42" x 10.24")
- PCI bridge: PI7C8152BMAE
- Primary PCI: 3 slots; Secondary PCI: 4 slots
- Ordering Information: PCA-6119P7-0C1E
- Compatible with IPC Chassis : IPC-623, IPC-622



PCA-6120P12-0A2E

- Segments: 1
- Slots: 7 ISA, 11 PCI, 1 PICMG/PCI, 1 PICMG
- Size: 417 x 260 mm (16.42" x 10.24")
- PCI bridge: Pericom PI7C8150BMAE
- Primary PCI: 3 slots; Secondary PCI: 9 slots
- Ordering Information: PCA-6120P12-0A2E
- Compatible with IPC Chassis : IPC-623, IPC-622



PCA-6120P4-0B2E

- Segment: 1
- Slots: 14 ISA, 4 PCI, 2 PICMG
- Size: 417 x 260 mm (16.42" x 10.24")
- Ordering Information: PCA-6120P4-0B2E
- Compatible with IPC Chassis : IPC-623, IPC-622



PCA-6120Q-0B2E

- Segment: 4
- Slots: 5-5-5-5 ISA
- Size: 417 x 200 mm (16.42" x 7.87")
- Ordering Information: PCA-6120Q-0B2E
- Compatible with IPC Chassis : IPC-623, IPC-622

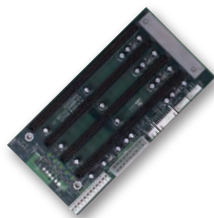


Half-Size SBC Backplanes

ISA Half-size SBC Backplanes

PCA-6104-0C2E

- Segments: 1
- Slots: 4 ISA
- Size: 94.7 x 186 mm (3.7" x 7.3")
- Ordering Information: PCA-6104-0C2E



PCA-6106-0B2E

- Segments: 1
- Slots: 6 ISA
- Size: 142 x 175 mm (5.59" x 6.89")
- Compatible with IPC-6806S, IPC-6006S, IPC-3026
- Ordering Information: PCA-6106-0B2E



PCA-6108E-0C2E

- Segments: 1
- Slots: 8 ISA
- Size: 180 x 190 mm (7.09" x 7.48")
- Compatible with IPC-6908
- Ordering Information: PCA-6108E-0C2E



PCA-6108-0B2E

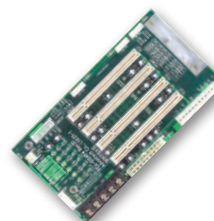
- Segments: 1
- Slots: 8 ISA
- Size: 222 x 171 mm (8.74" x 6.73")
- Only for commercial PC chassis (baby AT size)
- Ordering Information: PCA-6108-0B2E



PCI Half-size SBC Backplanes

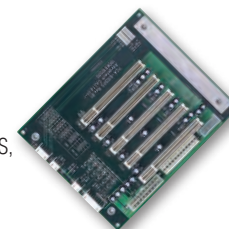
PCA-6104P4-0B2E

- Segments: 1
- Slots: 4 PCI
- Size: 110 x 180 mm (4.3" x 7")
- Ordering Information: PCA-6104P4-0B2E



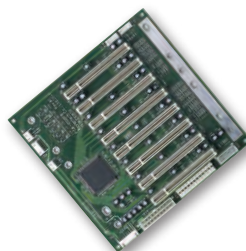
PCA-6105P5-0B2E

- Segments: 1
- Slots: 5 PCI
- Size: 143 x 155 mm (5.6" x 6")
- Compatible with ACP-4D00, IPC-6806S, IPC-6006S, IPC-3026
- Ordering Information: PCA-6105P5-0B2E



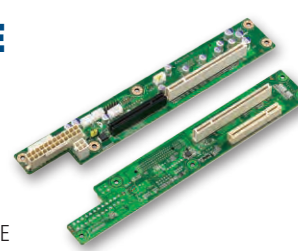
PCA-6108P8-0A2E

- Segments: 1
- Slots: 8 PCI
- Size: 182 x 185 mm (7.2" x 7.3")
- Compatible with IPC-6908
- Ordering Information: PCA-6108P8-0A2E



PCI-7103P1V-01A1E

- Segments: 1
- Slots: 1 PCI, 1 PCIe x 4 (in PCIe x 8 slot)
- Size: 252 x 41 mm (9.9" x 1.6")
- Compatible with IPC-120 chassis
- Compatible with PCI-7031DF and PCI-7032F CPU cards
- Ordering Information: PCI-7103P1V-01A1E



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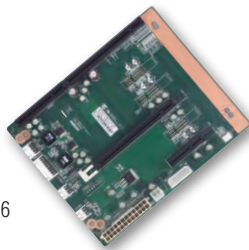
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Half-Size SBC Backplanes

PICMG 1.3 Half-size SHB Backplanes

PCE-3B03-00A1E

- 3 slot backplane for 6-slot chassis
- Segments: 1
- One CPU card slot
- PCIe slot: One x16, One x4
- Size: 142 x 176 mm
- Compatible with ACP-4D00, IPC-6806S, IPC-3026
- Ordering information: PCE-3B03-00A1E



PCE-3B06-00A1E

- 6 slot backplane for 6-slot chassis
- Segments: 1
- One CPU card slot
- PCIe slot: One x16, four x1
- Size: 142 x 176 mm
- Compatible with ACP-4D00, IPC-6806S, IPC-3026
- Ordering information: PCE-3B06-00A1E



PCE-3B06-03A1E

- 6 slot backplane for 6-slot chassis
- Segments: 1
- One CPU card slot
- PCIe slot: One x16, One x1
- PCI slot: Three 32/33
- Size: 142 x 176 mm
- Compatible with ACP-4D00, IPC-6806S, IPC-3026
- Ordering information: PCE-3B06-03A1E



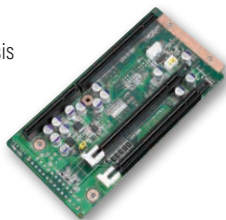
PCE-3B06-02A1E

- 6-slot backplane for 6-slot chassis
- Segments: 1
- One CPU card slot
- PCIe slot: One x16, Two x1
- PCI slot: Two 32 bit/33MHz
- Size: 142 x 176 mm
- Compatible with ACP-4D00, IPC-6806S, IPC-3026
- Ordering information: PCE-3B06-02A1E



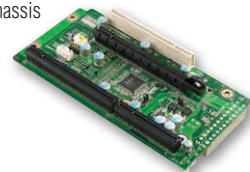
PCE-3B03A-00A1E

- 3 slot backplane for compact-sized wall-mount chassis
- Segments: 1
- One CPU card slot
- PCIe slot: One x16, One x4
- Size: 173 x 86.3 mm
- Compatible with IPC-3012
- Ordering information: PCE-3B03A-00A1E



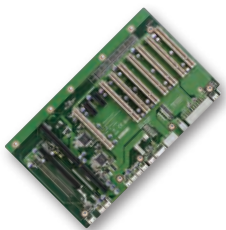
PCE-3B03-01A1E

- 3 slot backplane for compact-sized wall-mount chassis
- Segments: 1
- One CPU card slot
- PCIe slot: One x16
- PCI slot: One 32 bit/33MHz
- Size: 173 x 86.3 mm
- Compatible with IPC-3012
- Ordering information: PCE-3B03-01A1E



PCE-3B12-08A1E

- 12-slot backplane for 14-slot half-sized chassis
- Segments: 1
- One CPU card slot
- PCIe slot: One x16, Two x1
- PCI slot: Eight 32 bit/33MHz
- Size: 315 x 185 mm
- Compatible with IPC chassis: ACP-4020
- Ordering information: PCE-3B12-08A1E



PCE-4B13-08A1E

- 13-slot backplane for 14-slot half-sized chassis
- Segments: 1
- One CPU card slot
- PCIe slot: Two x8, Two x1
- PCI slot: Eight 32 bit/33MHz
- Size: 315 x 185 mm
- Compatible with IPC chassis: ACP-4020
- Ordering information: PCE-4B13-08A1E



PCE-4B12-03A1E

- 12-slot backplane for 14-slot half-sized chassis
- Segments: 1
- One CPU card slot
- PCIe slot: One x8, Four x4, Three x1
- PCI slot: Three 32 bit/33MHz
- Size: 315 x 185 mm
- Compatible with IPC chassis: ACP-4020
- Ordering information: PCE-4B12-03A1E



PCE-4B13-00A1E

- 13-slot backplane for 14-slot half-sized chassis
- Segments: 1
- One CPU card slot
- PCIe slot: One x8, Eleven x4
- PCI slot: N/A
- Size: 315 x 243.84 mm
- Compatible with IPC chassis: ACP-4020
- Ordering information: PCE-4B13-00A1E

