

Одноплатные промышленные компьютеры половинного размера с шиной PCI/PCle серии PCI-7000

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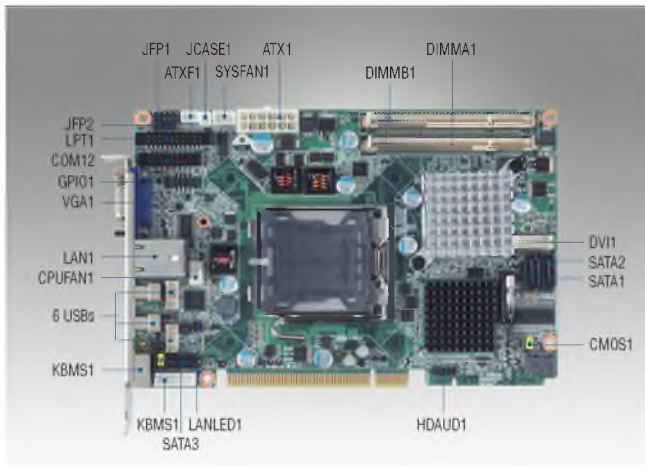
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PCI-7020

LGA775 Intel® Core™2 Duo PCI Half-size SBC with VGA/GbE LAN/SATA and SSD



Features

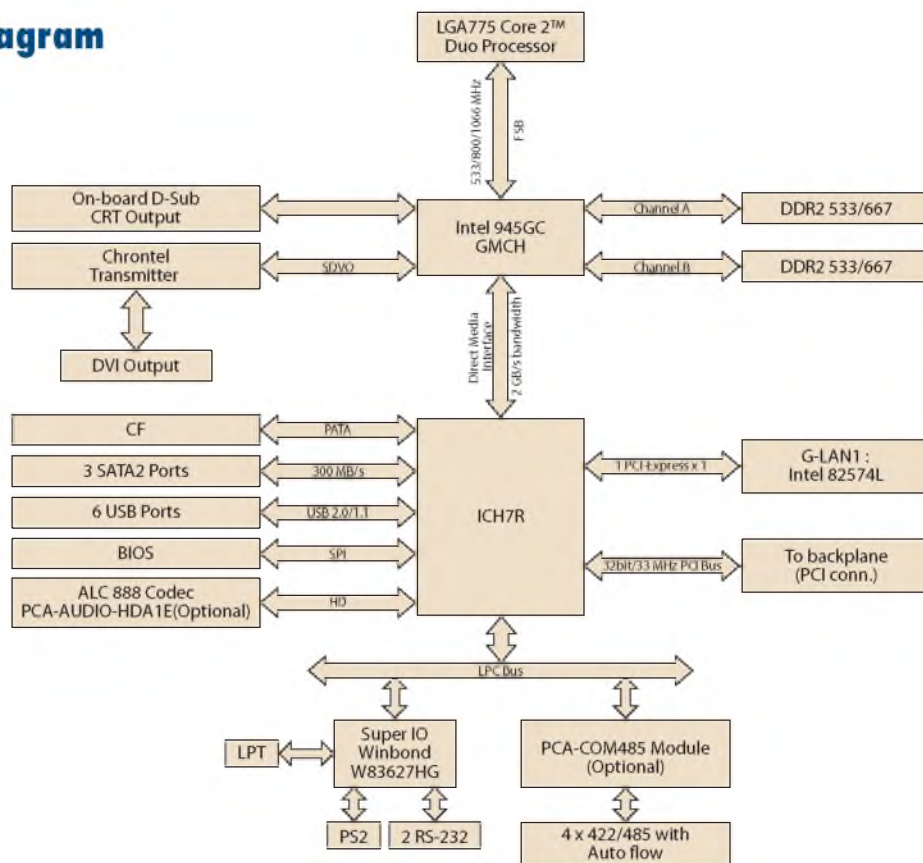
- Supports LGA 775 Intel® Core™2 Duo FSB 1066 MHz processors
- Supports dual channel DDR2 667 SDRAM up to 4 GB
- Supports 6 USB 2.0 ports
- Supports GbE LANs via PCIe x1 lanes
- Supports up to 6 COM, 4 x RS-485 w/Auto-Flow control by COM module



Specifications

Processor System	CPU	Core 2 Duo	
	FSB	1066 MHz	
	Max Speed	2.8 GHz	
	L2 Cache	4 MB	
	Chipset	Intel 945GC + ICH7R	
	BIOS	AWARD 8 Mbit SPI Flash	
Bus	Front Side Bus	533/800/1066	
	PCI	32-bit/33 MHz	
Memory	Technology	Dual-channel DDR2 533/667 MHz SDRAM SODIMM	
	Max. Cap.	4 GB	
	Socket	200-pin SODIMM x 2	
Graphics	Controller	Intel Graphics Media Accelerator 950	
	Integrated	VGA Mode: Up to 2048 x 1536 @ 75 Hz refresh Up to 2048 x 1536 @ 75 Hz refresh	
	VRAM	Shared with 224 MB system memory	
	DVI (optional)	Maximum pixel clock of 400 MHz up to 2048 x 1536 resolutions @ 75 Hz	
Ethernet	Interface	10/100/1000 Mbps	
	Controller	Intel 82574L x 1	
	Connector	RJ-45 with LED Connector x 1	
SATA	Bandwidth	300 MB	
	Channel	3	
EIDE	Mode	-	
	Channel	-	
I/O Interface	USB 2.0	6 ports (USB 2.0 compliant, 2 ports on rear I/O, 4 ports onboard by 2.0 mm pitch box header)	
	Serial	6 COM (2 x RS-232 onboard, Optional: 4 x RS-422/485 w/Auto-flow by PCA-COM485 module)	
	Parallel	1 (EPP/ECP), 2.0 mm pitch pin header	
	PS/2	1 (for mouse and keyboard, a Y-cable is included in the package)	
Watchdog Timer	Output	System reset	
	Interval	Programmable, 1-255 sec/min	
Miscellaneous	Audio Output	Intel High Definition audio interface (requires an audio extension module P/N: PCA-AUDIO-HDA1E)	
	Solid State Disk	CompactFlash Socket (Type I/II)	
Power Requirement	CPU/RAM	Core 2 Duo E7400 2.80 GHz + DDR2 800 2 GB	
	Voltage	+12 V (4.38 A)	+5 V (4.86 A)
Environment	Temperature	Operating	Non-Operating (Storage)
		0 - 60° C (32 - 140° F), with appropriate CPU cooler (operating humidity: 40° C @ 85% RH Non-Condensing)	-40° C - 85° C and 60° C @ 95% RH Non-Condensing
Physical	Dimensions	185 mm (L) x 122 mm (W) (7.3" x 4.8")	

Board Diagram



Ordering Information

Part Number	LAN	S/W RAID	VGA	COM	DVI
PCI-7020VG-00A1E	Single GbE	Yes	Yes	2	(optional)

Optional Accessories

Part Number	Description
MBPC-641BP-60E	4-slot chassis w/150W power supply
IPC-6806SB-15ZBE	6-slot chassis w/150W power supply
PCA-AUDIO-HDA1E	HD Audio-card
1700000265	Power cable for single board usage
PCA-COM485-00A1E	4 x 422/485 COM module
PCA-COM232-00A1E	4 x 232 COM module
1701140201	COM port cable without bracket

Packing List

Part Number	Description	Quantity
1700002223	Printer port cable (2.0 mm pitch) with bracket	x 1
1700003194	Serial ATA HDD data cable	x 1
1703150102	Serial ATA HDD power cable	x 1
1700006196	Power cable 12P/Big 4P x 2 10 cm	x 1
1700008762	Dual COM cable kit with bracket (2.0 mm pitch)	x 1
1700060202	Keyboard and mouse Y-cable	x 1
1700002343	ATX feature cable	x 1
1700014398	4-port USB cable kit (2.0 mm pitch)	x 1
9689000002	Jumper package	x 1
1960035861N000	HEAT SINK 79 x 79 x 24 mm PCI-7020	x 1

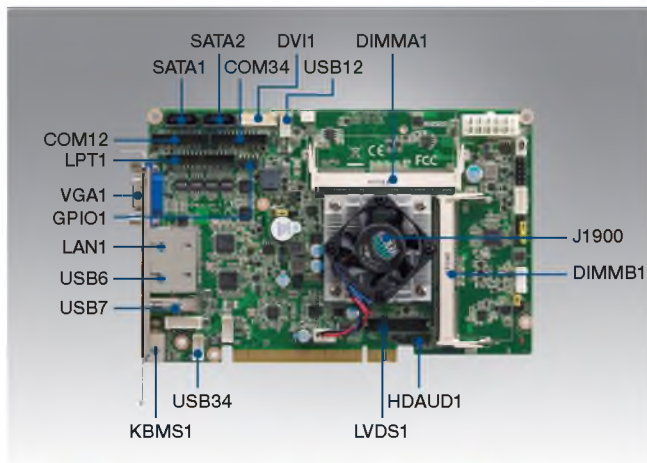
Bracket View



PCI-7020VG-00A1E

PCI-7032

Intel® Celeron J1900/N2930 PCI Half-size SBC with
DDR3L 1333/Dual GbE/m-SATA/4 RS-232/422/485



Features

- Ultra low power Intel® Celeron processor J1900/N2930, VG SKU is fan-less design
- Dual channel DDR3L 1066/1333 on 204-pin SO-DIMM socket
- Dual independent display
- Up to 2 GbE LAN
- 2 SATA 2.0 (300 MB/s), one of them can be configured as m-SATA
- Legacy I/O: 4 RS-232/422/485, and 1 LPT support

Software APIs:



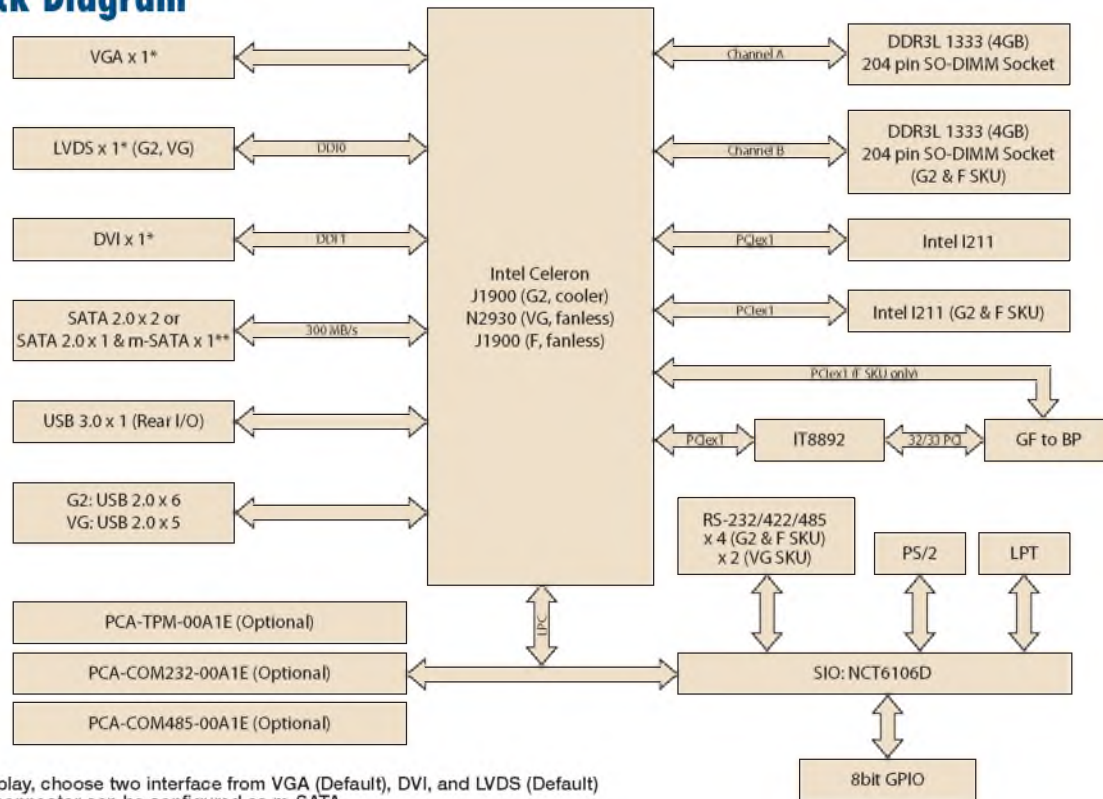
Watchdog H/W Monitor Brightness GPIO



Specifications

Processor System	CPU	Intel Celeron N2930	Intel Celeron J1900
	Speed	1.83 GHz	2.0 GHz
	L2 Cache	2 MB	2 MB
	BIOS	AMI 64Mb SPI Flash	
Bus	PCI-Express	PCIe x 1 (F SKU only)	
	PCI	Four 32 bit/33 MHz PCI Masters to Backplane	
Memory	Technology	G2: Dual channel DDR3L-1333 VG: DDR3L-1333 F: Dual channel DDR3L-1333	
	Max. Cap.	8 GB (4GB per DIMM)	
	Socket	DDR3 204-pin SO-DIMM x1 (VG); x2 (G2, F)	
Graphics	Onboard	Chipsset integrated Intel® HD Graphics	
	VRAM	Shared system memory. It subjects to the OS.	
	Video Interface	Dual independent display: choosing two interfaces from VGA (default), LVDS (default), and DVI	
	Video Output	VGA: Supports up to 2560 x 1600 @ 60 Hz LVDS: 48 bit (Dual channel 24 bit) LVDS up to 1920 x 1200 @ 60 Hz DVI: Supports up to 2560 x 1600 @ 60 Hz Dual independent display: choosing two interface from VGA (Default), DVI and LVDS (Default)	
Ethernet	Interface	10/100/1000 Mbps	
	Controller	LAN1: Intel I211 LAN2: Intel I211 (G2, F)	
	Connector	RJ-45 with LED Connector x 2	
SATA	Max. Transfer Rate	300 MB/s (SATA 2.0)	
	Channel	2 (SATA2 can be configured as m-SATA)	
I/O Interface	USB 2.0	G2: one USB 3.0 (5Gbps, rear I/O), six USB 2.0 (480Mbps, pin-header x6) VG: one USB 3.0 (5Gbps, rear I/O), five USB 2.0 (480Mbps, pin-header x4, rear I/O x1) F: one USB 3.0 (5Gbps, rear I/O), six USB 2.0 (480Mbps, pin-header x6)	
	Serial	Four RS-232/422/485 for G2 & F; Two RS-232/422/485 for VG	
	Parallel	1 (EPP/ECP)	
	PS/2	1 (for mouse and keyboard, an Y cable is included in the package)	
Watchdog Timer	Output	System reset	
	Interval	Programmable, 1-255 sec/min	
Miscellaneous	Audio Output	Intel High Definition audio interface (requires a audio extension module)	
Environment		Operating	Non-Operating
	Temperature	0 - 60° C (32 - 140° F) (operating humidity: 40° C @ 85% RH Non-Condensing)	-40 - 85° C and 60° C @ 95% RH Non-Condensing
Power Requirement	Test Environment	Intel Celeron J1900 (2GHz), DDR3L 1333, 4GB SO-DIMM module*2	
	Voltage	12V	5V 5VSB
	Current	0.737A	0.298A 0.044A
Physical	Dimensions	185 mm (L) x 122 mm (W) (7.3" x 4.8")	

Block Diagram



* Dual display, choose two interface from VGA (Default), DVI, and LVDS (Default)
 ** SATA2 connector can be configured as m-SATA.

Ordering Information

Model Name	SoC	Memory	DIMM Slot	Fanless	USB	COM Port	PCIe x 1	LPT	LAN	VGA	LVDS	DVI	m-SATA	HW Monitor
PCI-7032G2-00A1E	J1900	Dual channel DDR3L-1333 up to 8GB (204-pin SO-DIMM socket x2)	2	No	1 x USB 3.0 6 x USB 2.0	4	No	1	2	Yes	Yes	Yes	Yes	Yes
PCI-7032VG-00A1E	N2930	DDR3L-1333 up to 4GB (204-pin SO-DIMM socket x1)	1	Yes	1 x USB 3.0 5 x USB 2.0	2	No	1	1	Yes	Yes	Yes	Yes	No
PCI-7032F-00A1E	J1900	Dual channel DDR3L-1333 up to 8GB (204-pin SO-DIMM socket x2)	2	Yes	1 x USB 3.0 6 x USB 2.0	4	Yes	1	2	Yes	No	Yes	No	No

*PCI-7032F-00A1E is only compatible with Advantech IPC-120 chassis which has special thermal design and can NOT be used with other enclosure.

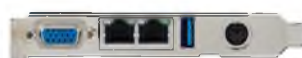
Optional Accessories

Part Number	Description
PCA-COM485-00A1E	4x RS-422/485 module
PCA-COM232-00A1E	4 x RS-232 module
PCA-TPM-00A1E	TPM module (Trusted platform management)
1700021831-01	DVI cable
1700000265	12 pin-12 pin ATX power cable kit
1703100261	2-port USB cable kit

Packing List

Part Number	Description	Quantity
1960046526N001	CPU cooler for Celeron J1900 SoC (only available for G2 SKU)	x 1
1700003194	Serial ATA HDD data cable	x 1
1700022749-11	Serial ATA HDD power cable	x 1
1700002223	Printer (parallel) port cable kit	x 1
1700008762	Dual COM ports cable kit	x2 (G2,F) x1 (VG)
1700002343	ATX feature cable	x 1
1700014398-11	4-port USB cable kit	x 1
1700060202	Y cable for PS/2 keyboard and PS/2 mouse	x 1
9689000068	Jumper pack	x 1
2001703200	PCI-7032 startup manual	x 1
2061703200	DVD with driver utility and manual (in PDF format)	x 1

Bracket View



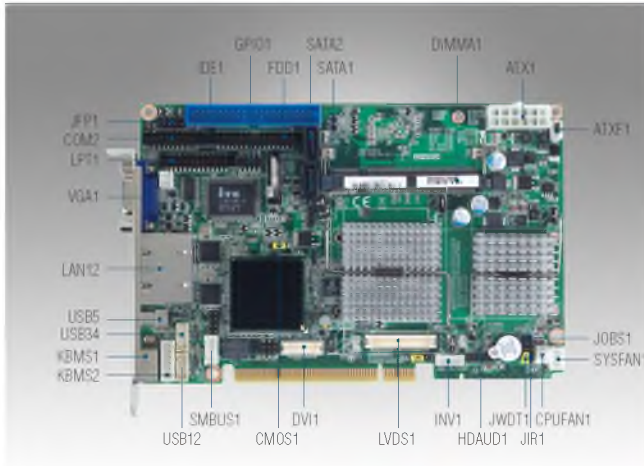
PCI-7032G2-00A1E
 PCI-7032F-00A1E



PCI-7032VG-00A1E

PCI-7030

Intel® Atom™ N270 PCI Half-size SBC
with Dual GbE LAN/LVDS/DVI/SATA/6 COM



Features

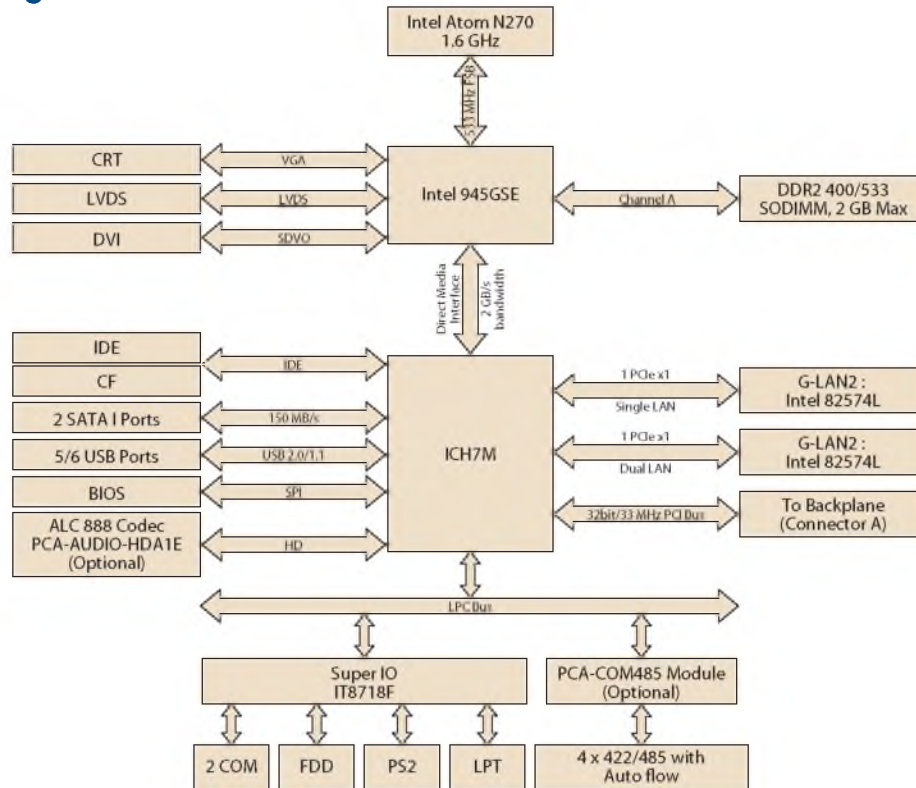
- Ultra Low power Fanless Intel® Atom™ processor N270 1.6 GHz
- One/Dual Gigabit Ethernet
- Supports up to 6 COM (Optional module 4 x RS-485 w/auto-flow control by PCA-COM485 module)
- 1600 x 1200 @ 18/36-bit LVDS, DVI support



Specifications

Processor System	CPU	Intel Atom N270 processor 1.6 GHz			
	FSB	400/533			
	L2 Cache	512 KB cache			
	Chipset	Intel 945GSE + Intel ICH7M			
	BIOS	Award SPI 8 MB			
Bus	PCI	32-bit/ 33 MHz			
Memory	Technology	Single Channel DDR2 SODIMM 400/533 MHz			
	Max. Capacity	2 GB			
	Socket	Yes			
Graphics	Controller	Intel 945GSE integrated			
	VGA mode	Supports up to QXGA 2048 x 1536 pixels with 32-bit color @ 75 Hz			
	VRAM	Shared system memory up to 224 MB (DVMT 3.0)			
	LVDS	Supports 18/36-bit up to UXGA 1600 x 1200			
	DVI	Maximum pixel clock of 400 MHz up to 1600 x 1200 pixels and 1920 x 1200 (reduced blanking) resolutions @ 75 Hz			
Dual Display	VGA, LVDS, DVI				
Ethernet	Interface	10/100/1000 Mbps Ethernet			
	Controller	Intel 82574L			
	Connector	RJ-45 x 1 for VG ; RJ-45 x 2 for G2			
EIDE	Mode	Ultra ATA 100/66/33			
	Channel	1			
SATA (150 MB/s)	Port	2 for SATA1, 150 MB/s			
I/O Interface	USB	6 USB2.0 for VG; 5 USB2.0 for G2 480 Mbps; 4 ports onboard and 2 for VG/1 for G2 ports on rear I/O			
	Serial	6 COM (2 x RS-232 onboard; Optional: 4 x RS-422/485 w/auto-flow by PCA-COM485 module)			
	Parallel	1 (via super I/O)			
	FDD	1			
	GPIO	8-bit ; CMOS Level (0 ~ 5 V)			
	PS/2	6-pin DIN socket on bracket for PS/2 keyboard and mouse (via super I/O) 6-pin (2.54 mm) wafer box connector for keyboard only			
Watchdog Timer	Output	System reset			
	Interval	1 min/sec or Max 65535 min/sec			
Miscellaneous	Audio Output	Intel High Definition audio interface (requires an audio extension module P/N: PCA-AUDIO-HDA1E)			
	Solid State Disk	CompactFlash socket (Type I/II), shared with secondary IDE			
Power Requirement	CPU/RAM	Atom 1.6G + DDR2 2G (533)			
	Voltage	+12 V (0.31 A)	+5 V (2.19 A)	+3.3 V (0A)	+5 VSB (0.04A) +2 V (0A)
Environment	Temperature	Operating		Non-Operating (Storage)	
		0 ~ 60° C (32 ~ 140° F) (operating humidity: 40° C @ 85% RH Non-Condensing)		-40° C ~ 85° C and 60° C @ 95% RH Non-Condensing	
Physical	Dimensions	185 mm (L) x 122 mm (W) (7.3" x 4.8")			

Board Diagram



Ordering Information

P/N	VGA	LVDS	DVI	USB	LAN	COM
PCI-7030VG-00A1E	Yes	Yes	-	6	1 (82574L)	2
PCI-7030G2-00A1E	Yes	Yes	Yes	5	2 (82574L)	2

Optional Accessories

Part Number	Description
MBPC-641BP-60E	4-slot chassis w/150 W power supply
IPC-6806SB-15ZBE	6-slot chassis w/150 W power supply
PCA-AUDIO-HDA1E	HD audio-card
PCA-SATAP2-00A1E	IDE/SATA adapter for CPU cards
1701140201	COM port cable without bracket
PCA-COM485-00A1E	4 x 422/485 COM module
PCA-COM232-00A1E	4 x 232 COM module

Packing List

Part Number	Description	Quantity
1700060202	Y-cable for PS/2 keyboard, PS/2 mouse	x 1
1701340603	FDD cable (600 mm)	x 1
1700000265	Power cable	x 1
1700002343	ATX feature cable	x 1
1703150102	Serial ATA HDD power cable	x 1
1700003194	Serial ATA HDD data cable	x 1
1701400452	EIDE (HDD) cable	x 1
1700002223	Parallel port cable (2.0 mm w/BKT)	x 1
1700008887	USB cable with 4 ports (2.0 mm pitch)	x 1
1700008762	Dual-COM port cable kit for COM1-2	x 1
9689000002	Jumper pack	x 1

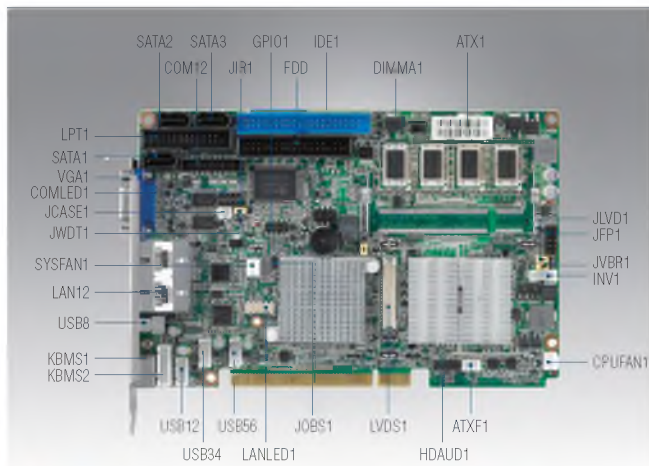
Bracket View



PCI-7030G2-00A1E

PCI-7031

Intel® Atom™ N450/D510 PCI Half-size SBC with Onboard DDR2/VGA/LVDS/Dual GbE/SATA/COM



Specifications

Processor System	CPU	Intel Atom N450	Intel Atom D510
	Speed	1.66 GHz	1.66 GHz
	L2 Cache	512 KB	1 MB
	Chipset	ICH8M	
	BIOS	AMI 16Mb SPI Flash	
Bus	PCI-Express	-	
	PCI	Four 32 bit/33 MHz PCI Masters to Backplane	
Memory	Technology	Single channel DDR2 667 MHz	
	Max. Cap.	1 GB onboard for N SKU; max 2 GB SODIMM for D SKU	
	Socket	No socket for N SKU; 200-pin SODIMM x 1 for D SKU	
Graphics	Onboard	Embedded Gen3.5+ GFX Core technology, DirectX 9/Pixel Shader 2.0 compliant	
	VRAM	Shared 224 MB	
	Video Interface	15-pin VGA D-sub connector x1/Onboard LVDS pin header x 1 (supports single channel 18-bit LVDS)	
Video Output	VGA:	Supports up to SXGA 1400 x 1050 @ 60 Hz for N SKU, up to 2048 x 1536 @ 60 Hz for D SKU	
	LVDS:	Supports 18-bit single channel and up to WXGA 1366 x 768 or 1280 x 800 for both N and D SKUs	
Dual Display:	VGA + LVDS,	support extended mode and clone mode for both N and D SKUs	
Ethernet	Interface	10/100/1000 Mbps	
	Controller	LAN1: Intel 82567V LAN2: Intel 82583V	
	Connector	RJ-45 with LED Connector x 2	
SATA	Max. Transfer Rate	300 MB/s	
	Channel	3	
EIDE	Mode	ATA 100/66/33	
	Channel	1 (supports up to 2 IDE devices)	
I/O Interface	USB 2.0	7 ports on the SHB	
	Serial	Two RS-232 onboard pin-headers, plus four RS-485 ports with auto-flow control by module (Optional, Advantech P/N: PCA-COM485-00A1E)	
	Parallel	1 (EPP/ECP)	
	FDD	1	
	PS/2	1 (for mouse and keyboard, an Y cable is included in the package)	
Watchdog Timer	Output	System reset	
	Interval	Programmable, 1-255 sec/min	
Miscellaneous	Audio Output	Intel High Definition audio interface (requires a audio extension module, P/N: PCA-AUDIO-HDA1E)	
Environment	Temperature	Operating	Non-Operating
		0 ~ 60° C (32 ~ 140° F) (operating humidity: 40° C @ 85% RH Non-Condensing)	-40 ~ 85° C and 60° C @ 95% RH Non-Condensing
Physical	Dimensions	185 mm (L) x 122 mm (W) (7.3" x 4.8")	

Features

- Ultra low power, fanless Intel® Atom™ processor N450 CPU and 1 GB onboard DDR2 667 memory (Only for N SKU)
- Dual core high performance D510 CPU and maximum 2 GB DDR2 667 memory (Only for D SKU)
- VGA/LVDS dual video outputs
- Optional module for 4 x RS-485 w/auto-flow control
- Supports embedded software APIs and Utilities

Software APIs:

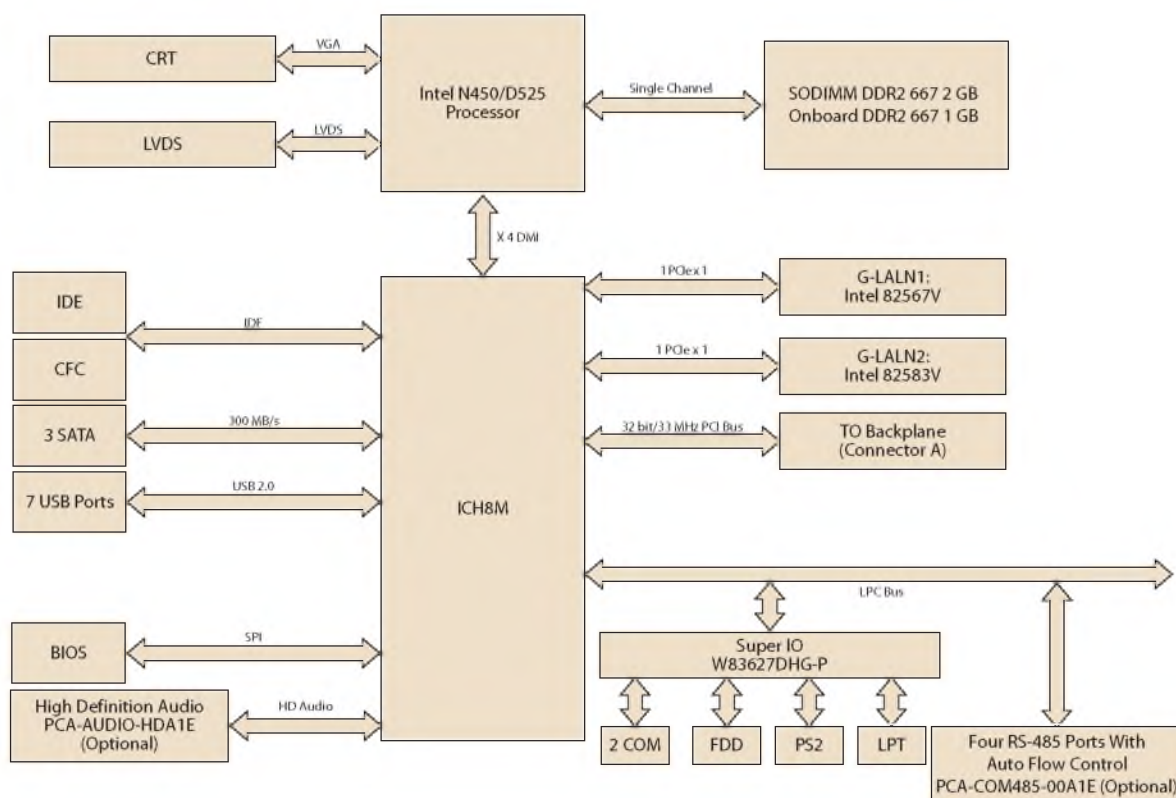


Utilities:



Note: eSOS needs ODM BIOS available by request

Block Diagram



Ordering Information

Model Name	CPU	Memory	Fanless	VGA	LVDS	SATA	USB	COM	CF
PCI-7031D-S6A1E	Atom D510	One SODIMM Socket 2 GB DDR2 667 No Onboard RAM	No	Yes	Yes	3	7	2	Yes
PCI-7031N-S6A1E	Atom N450	No SODIMM Socket Onboard 1 GB DDR2 667	Yes	Yes	Yes	3	7	2	Yes

Optional Accessories

Part Number	Description
PCA-COM485-00A1E	Extension module for four RS-422/485 ports with auto-flow control function
PCA-AUDIO-HDA1E	Extension module for 7.1 channel High Definition audio

Bracket View



PCI-7031D-S6A1E
PCI-7031N-S6A1E

Packing List

Part Number	Description	Quantity
960046526N001	CPU cooler for Atom D510 CPU (only available for D SKU)	x 1
1700340640	FDD cable	x 1
1701400452	Ultra ATA 66/100 HDD cables	x 1
1700003194	Serial ATA HDD data cable	x 1
1703150102	Serial ATA HDD power cable	x 1
1701260301	Printer (parallel) port cable kit	x 1
1700008762	Dual COM ports cable kit	x 1
1700002343	ATX feature cable	x 1
1700014398	4-port USB cable kit	x 1
1700060202	Y cable for PS/2 keyboard and PS/2 mouse	x 1
1700000265	AT/ATX PSU 20-Pin to 12-Pin Cable Kit	x 1
9689000068	Jumper pack	x 1
-	Warranty card	x 1
-	PCI-7031 startup manual	x 1
-	CD with driver utility and manual (in PDF format)	x 1

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Тула (4872)74-02-29
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Ульяновск (8422)24-23-59
Уфа (347)229-48-12
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Череповец (8202)49-02-64
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