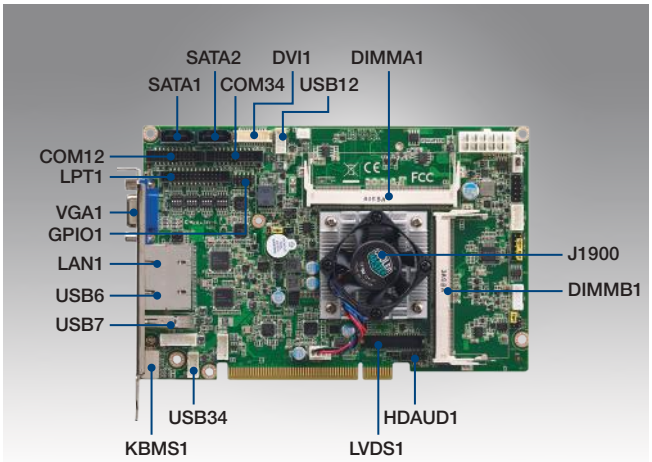
PCI-7032

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 fanless 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

Vertrieb durch AMC
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Quiet

Specifications

CE FCC

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	Chipset 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, 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 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 (L x H)	185 x 122 mm (7.3" x 4.8")		

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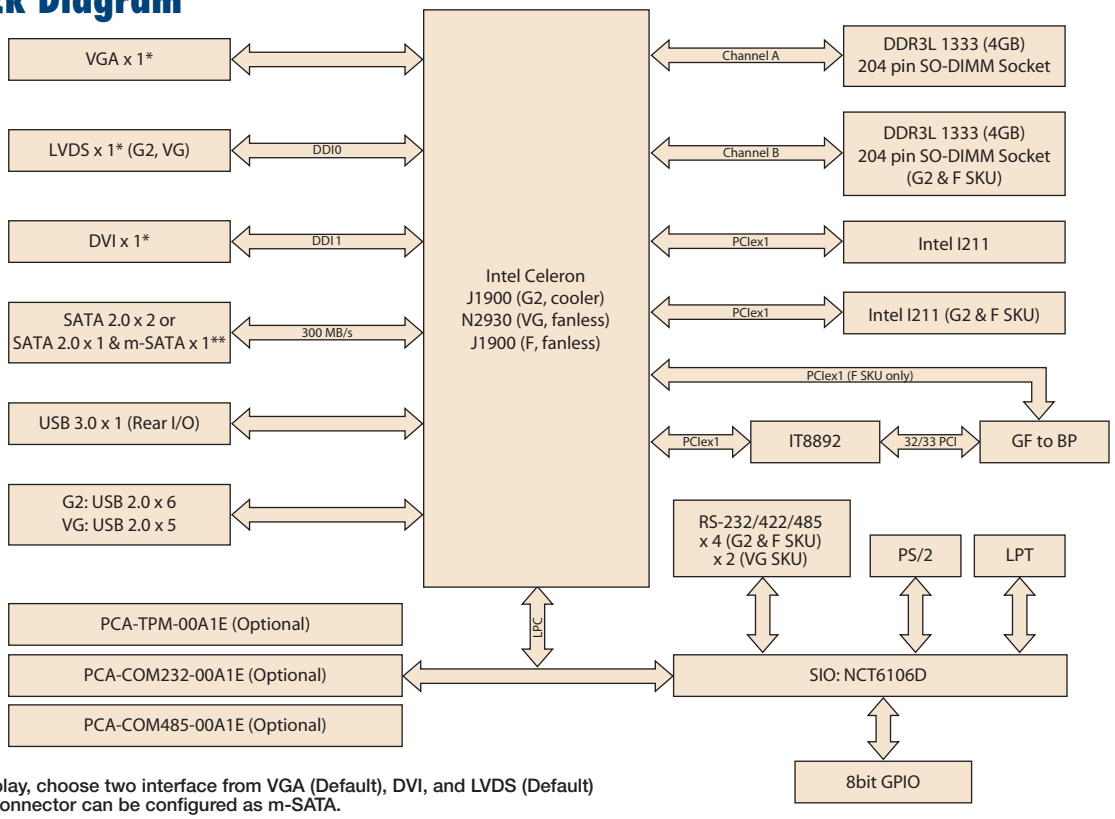
Block Diagram



* 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 enclosures.

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
PCA-AUDIO-HDB1E	Audio-card, B1 version

*PCI-7032 do not support PCA-AUDIO-HDA1E

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
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
2001703200	PCI-7032 startup manual	x 1
2061703200	DVD with driver utility and manual (in PDF format)	x 1

I/O View

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

PCI-7032VG-00A1E

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