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With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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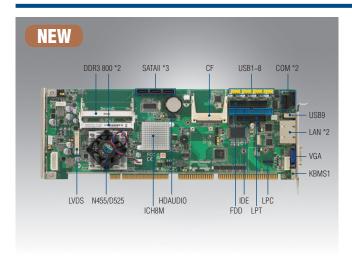






PCA-6012

Intel® Atom™ N455/D525 SBC with **VGA/Dual GbE LAN**



Features

- Ultra low power, fanless N455 CPU and maximum 2 GB DDR3 800 memory (Only for N SKU)
- Dual core high performance D525 CPU and maximum 4 GB DDR3 800 memory (Only for D SKU)
- Optional module for 4 x RS-485 w/auto-flow control
- Supports embedded software APIs and utilities

Software APIs:























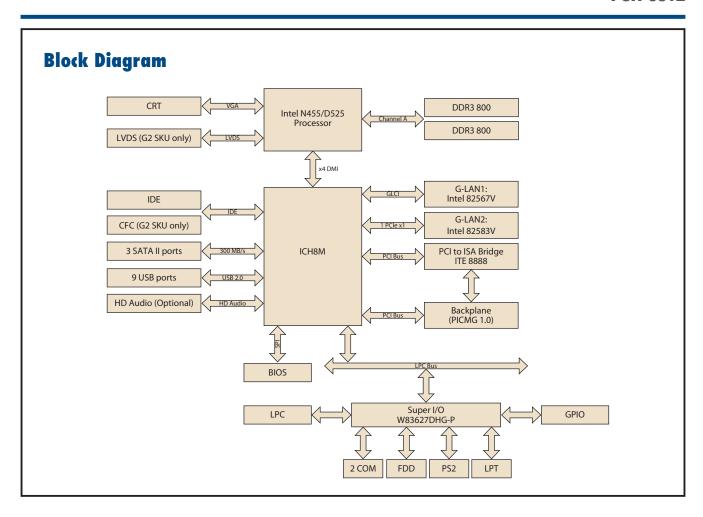






Specifications

	CPU	Intel Atom N455 Intel Atom D525					
	Speed	1.66 GHz 1.8 GHz					
Processor System	L2 Cache	512 KB 1 MB					
1 10000001 Gyotom	Chipset	Intel ICH8M					
	BIOS	AMI 16Mb SPI Flash					
	PCI	32-bit/33 MHz PCI					
Bus	ISA	HISA (ISA High Drive)					
	Technology	Dual channel DDR3 800 MHz DIMMs					
Memory	Max. Cap.	2 GB 4 GB					
	Socket	204 pin SODIMM x 2					
	Controller	Embedded Gen3.5+ GFX Core technology, Direct X 9/Pixel Shader 2.0 compliant					
	VRAM	Shared with system memory up to 224 MB					
		15-pin VGA D-sub connector x1/LVDS pin header x 1					
Graphics	Video Interface	(G2 SKU only, supports single channel 18-bit LVDS)					
		VGA: Supports up to SXGA 1400 x 1050 @ 60 Hz for Atom™ N455 VG SKU, up to 2048 x 1536 @ 60 Hz for					
	Video Output	Atom D525 G2 SKU					
	Trace Carpan	LVDS: Supports 18-bit single channel and up to WXGA 1366 x 768 or 1280 x 800 (G2 SKU only)					
	Interface	10/100/1000 Mbps					
Ethernet	Controller	LAN1: Intel 82567V, LAN2: Intel 82583V					
	Connector	RJ45 with LED Connector x2 (G2 SKU), x1 (VG SKU)					
CATA O	Max. Transfer Rate	300 MB/s					
SATA 2	Channel	3					
FIDE	Mode	ATA 100/66/33					
EIDE	Channel	1 (Supports up to 2 IDE devices; Master device is alternative for CF socket)					
	USB 2.0	8 ports by pin header (VG SKU); 8 ports by pin header and 1 port on bracket I/O (G2 SKU)					
	Serial	2 RS-232 onboard pin-headers, plus four ports of RS-485 with auto-flow control by module					
	Serial	(optional, Advantech P/N: PCA-COM485-00A1E)					
I/O Interface	Parallel	1 (EPP/ECP)					
	GPI0	1 (8-bit)					
	FDD	1					
	PS/2	1 (for mouse and keyboard, 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)					
	Configuration	Atom D525 CPU 1.8 GHz + DDR3 1333 2G x2 SODIMM; Storage: One SATA HDD					
	Voltage	+12 V +5 V +3.3 V +5 VSB -12 V -5 V					
Power Requirement	Current	0.44 A 3.71 A 0 A 0.15 A 0 A 0 A					
i owoi noquiromoni	Configuration	Atom N455 CPU 1.66 GHz + DDR3 1333 1G x2 SODIMM; Storage: One SATA HDD					
	Voltage	+12 V +5 V +3.3 V +5 VSB -12 V -5 V					
	Current	0.16 A 2.81 A 0 A 0.13 A 0 A					
		Operating Non-Operating					
Environment		0 ~ 60° C (32 ~ 140° F)					
LITTIONINGIN	Temperature	(Operational humidity: 40° C @ 85% RH -40 ~ 85° C and 60° C @ 95% RH Non-Condensing					
		Non-Condensing)					
Physical	Dimensions	338 mm (L) x 122 mm (W) (13.3" x 4.8")					



Ordering Information

P/N	CPU	Fan-Less	RAM	LAN	VGA	LVDS	FDD	SATA	USB	CF
PCA-6012VG-00A1E	Atom N455	Yes	Socket to 2G	Single GbE LAN	Yes	-	1	3	8	-
PCA-6012G2-00A1E	Atom D525	No	Socket to 4G	Dual GbE LAN	Yes	Yes	1	3	9	1

Optional Accessories

-					
Part Number	Description				
PCA-AUDIO-HDA1E	Audio extension module				
1701090401	Single COM Cable Kitt				
PCA-COM485-00A1E	4 x RS-422/RS-485 COM module				

Bracket View





PCA-6012VG-00A1E

PCA-6012G2-00A1E

Packing List

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Part Number	Description	Quantity
1960046526N001	CPU Cooler for Atom D525CPU (Only for G2 SKU)	x1
1701400452	IDE HDD cable	x 1
1700008461	USB cable with 4 ports	x 1
1703150102	Serial ATA HDD power cable	x 2
1700003194	Serial ATA HDD data cable	x 2
1700060202	Y-cable for PS/2 mouse & keyboard	x 1
1701260305	Printer + COM cable	x 1
9689000068	Jumper pack	x 1
-	Warranty card	x 1
-	Startup manual	x 1
-	CD with driver utility and manual (in PDF format)	x 1