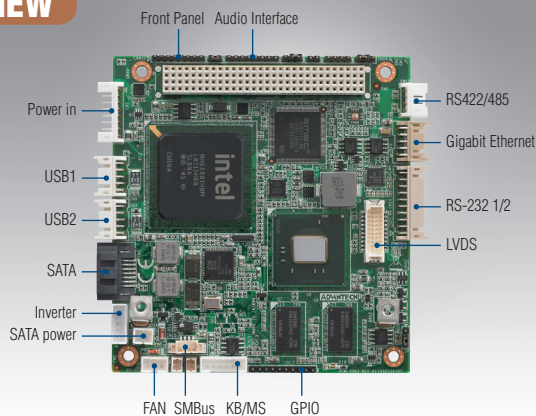


PCM-3363

Intel® Atom™ N455/D525 PCI-104
SBC, CRT, LVDS, LAN, USB, COM,
SATA, On-board Memory

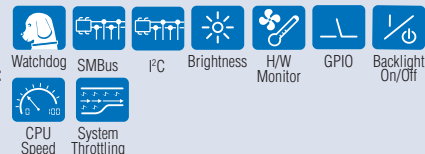
NEW



Features

- Intel® Atom N455 1.66 GHz Single Core/D525 Dual Core 1.8 GHz Processor
- Supports extended temperature -40~85° C
- 24-bit LVDS support and Onboard 1 GB DDR3 800 MHz memory
- 100% locked connector
- Supports embedded software APIs and Utilities

Software APIs:



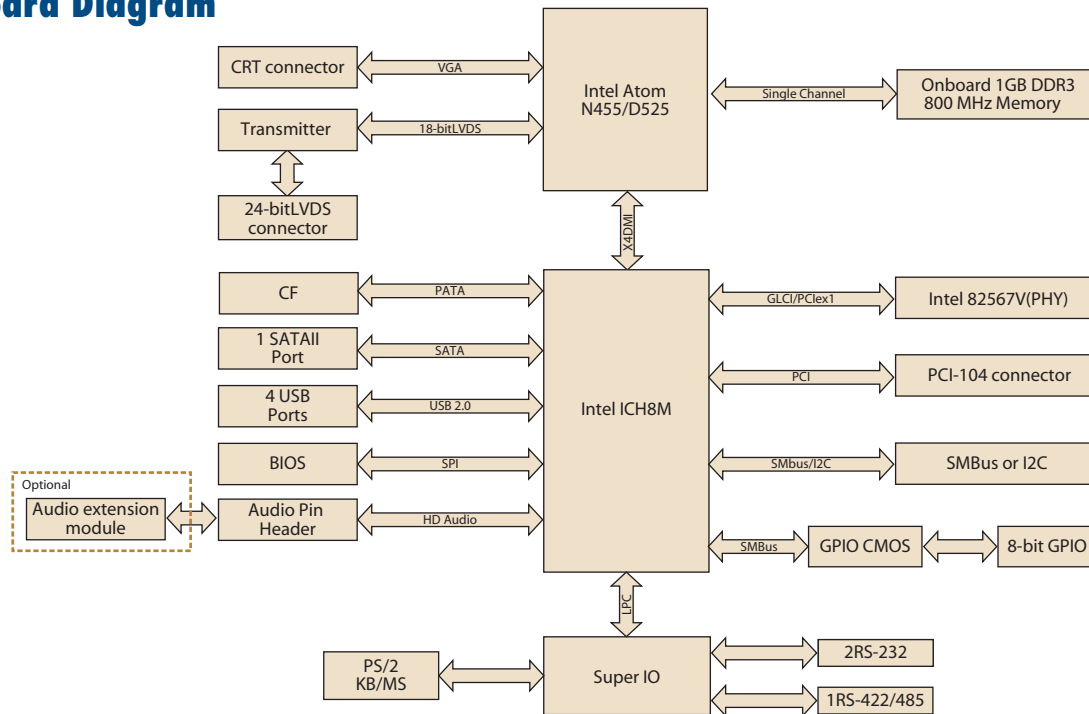
Utilities:



Specifications

Processor System	CPU	Intel Atom N455 Single Core 1.66 GHz Intel Atom D525 Dual Core 1.8 GHz	
	Front Side Bus	667/800 MHz	
	Frequency	1.66 GHz/1.8 GHz	
	L2 Cache	512 KB/1 MB	
	System Chipset	Intel Atom N455/D525 + ICH8M	
	BIOS	AMI 16 Mbit	
Memory	Technology	DDR3 800 MHz	
	Max. Capacity	1 GB	
	On board memory	1GB DDR3 800 Memory	
Display	Chipset	Intel Atom N455/D525	
	VRAM	Shared system memory up to 224 MB	
	Graphic Engine	Intel Atom N455 Single Core:	Gen 3.5 graphic core, DX9 compliant, MPEG2 Hardware Acceleration, 200 MHz
		Intel Atom D525 Dual Core:	Gen 3.5 graphic core, DX9 compliant, MPEG2 Hardware Acceleration, 400 MHz
	LVDS	Single channel 24-bit single channel LVDS up to 1366 x 768 (WXGA)	
	VGA	Intel Atom N455 Single Core up to 1400 x 1050(SXGA) Intel Atom D525 Dual Core up to 2048 x 1536	
Dual Display	CRT+LVDS		
Ethernet	Interface	10/100/1000 Mbps	
	Controller	ICH8M + Intel 82567V (PHY), support Wake-on-LAN	
	Connector	Locked Box Header	
WatchDog Timer		Output System Reset, Programmable counter from 1 ~ 255 minutes/ seconds	
Storage	CompactFlash	1	
	SATA	SATAII, up to 3.0 GB/s (300 MB/s)	
Internal I/O	USB	4 x USB 2.0	
	Serial	2 RS-232 from COM1/2, 1 RS-422/485 from COM3 (ESD protection for RS-232: Air gap ±15kV, Contact ±8kV)	
	SMBus	1 (allow to configure to I²C by customer's request)	
	Keyboard/Mouse	1	
	GPIO	8-bit general purpose input/output	
	Audio	Intel High Definition audio interface (requires an audio extension module P/N: PCA-AUDIO-HDA1E)	
Expansion	PCI-104 slot	1	
Power	Power Type	AT	
	Power Supply Voltage	5 V only to boot up (12 V is optional for LCD inverter and add on card)	
	Power Management	ACPI	
	Power Consumption (Typical)	N455: +5 V @ 1.404 A; D525: +5 V @ 1.85 A	
	Power Consumption (Max, test in HCT)	N455: +5 V @ 2.365 A; D525: +5 V @ 2.695 A	
Environment	Operation	0 ~ 60° C (32 ~ 140° F) (operation humidity: 40° C @ 95% RH Non-Condensing)	
	Non-Operation	-40° C ~ 85° C and 60° C @ 95% RH Non-Condensing	
Physical Characteristics	Dimensions (L x W)	96 x 90 mm (3.8" x 3.5")	
	Weight	0.162 kg (0.357 lb) (with heat-sink)	

Board Diagram



Ordering Information

Part Number	CPU	L2 Cache	Memory	CRT	LVDS	GbE	USB2.0	RS-232	RS-485	Thermal Solution	Operating Temp
PCM-3363N-1GS6A1E	Atom N455 (1.66 GHz)	512 KB	on board 1GB DDR3	1	24-bit	1	4	2	1	Passive	0 ~ 60° C
PCM-3363D-1GS8A1E	Atom D525 (1.8 GHz)	1 MB	on board 1GB DDR3	1	24-bit	1	4	2	1	Active	0 ~ 60° C
PCM-3363Z-1GS6A1E	Atom N455 (1.66 GHz)	512 KB	on board 1GB DDR3	1	24-bit	1	4	2	1	Passive	-20 ~ 80° C
PCM-3363Z2-1GS6A1E	Atom N455 (1.66 GHz)	512 KB	on board 1GB DDR3	1	24-bit	1	4	2	1	Passive	-40 ~ 85° C

Packing List

Part No.	Description	Quantity
	PCM-3363 SBC	
	Startup Manual	
	Utility CD	
170000898	VGA cable D-SUB 15P(F)/12P-1.25 MM 15 cm	1
1700003491	AT power cable 1*8P-2.0/B4P-5.08*2 15 cm	1
1700060202	Cable 6P-6P-6P PS/2 KB & Mouse 20cm	1
1703040157	RS-422/485 W/D-SUB COM 4P 15 cm	1
1703060053	PS2 Cable 6P (MINI-DIN)-6P (Wafer 2.0 mm) 6 cm	1
1700019000	USB cable 2port 2.0 mm pitch w/ bracket 26 cm (w/ locked)	1
1700008941	SATA data cable 7p 32 cm (w/ locked)	1
1703150102	SATA power cable B4P-5.08/SATA 15P 10 cm	1
1700018999	RS232 x2 ports 2.0 mm 22 cm (w/ locked)	1
1700019001	LAN cable RJ45/2*5P-2.0 15 cm (w/ locked)	1
9660104000	PC/104 screw and copper post package	1
TBD	Heatsink with FAN for PCM-3363D only (79.66 x 77.97 x 17.22 mm)	1
TBD	Heatsink for PCM-3363N only (79.66 x 77.97 x 12.22 mm)	1
TBD	Heatsink for PCM-3363Z series only (79.66 x 77.97 x 17.22 mm)	1

Optional Accessories

Part No.	Description
TBD	Heat spreader (79.66 x 77.98 x 10.32 mm) for PCM-3363
1653130421	PCI-104 connector 120 pin (Long pin)
PCA-AUDIO-HDA1E	Audio Extension module with bracket
1700018427	Audio cable connecting PCM-3363 and PCA-AUDIO-HDA1E

Embedded OS/API

Embedded OS/API	Part No.	Description
WinCE 6.0	Yes	
Win XPE	2070009030	XPE WES2009 Luna Pier V4.0 ENG
QNX	2070009031	XPE WES2009 Luna Pier V4.0 MUI24
Linux	QNX6.5	
VxWorks	Ubuntu 10.04	
Software API	6.8	
	Yes	