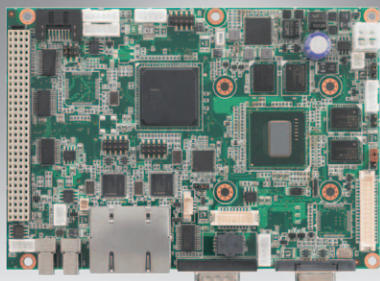


PCM-9364

Intel® Atom™ E600 series 3.5" SBC, 2 LVDS, 2 GbE, Onboard Memory, mini-PCIe, Cfast

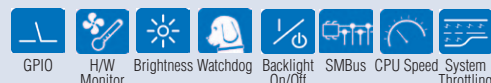
NEW



Features

- Embedded Intel® Atom™ Atom E600+ Intel IOH E620T, onboard memory up to 1 GB
- Display type: VGA, 24-bit LVDS1, 48-bit LVDS2,
- Supports H/W Decode and Encode
- Ultra low power, total power consumption under 7 Watts, fanless design
- Supports dual GbE, HD Audio, 4 COM ports, 5 USB2.0 ports (1 for client), CFast, 8-bit GPIO and 1 SATA interface
- Supports embedded software APIs and utilities

Software APIs:



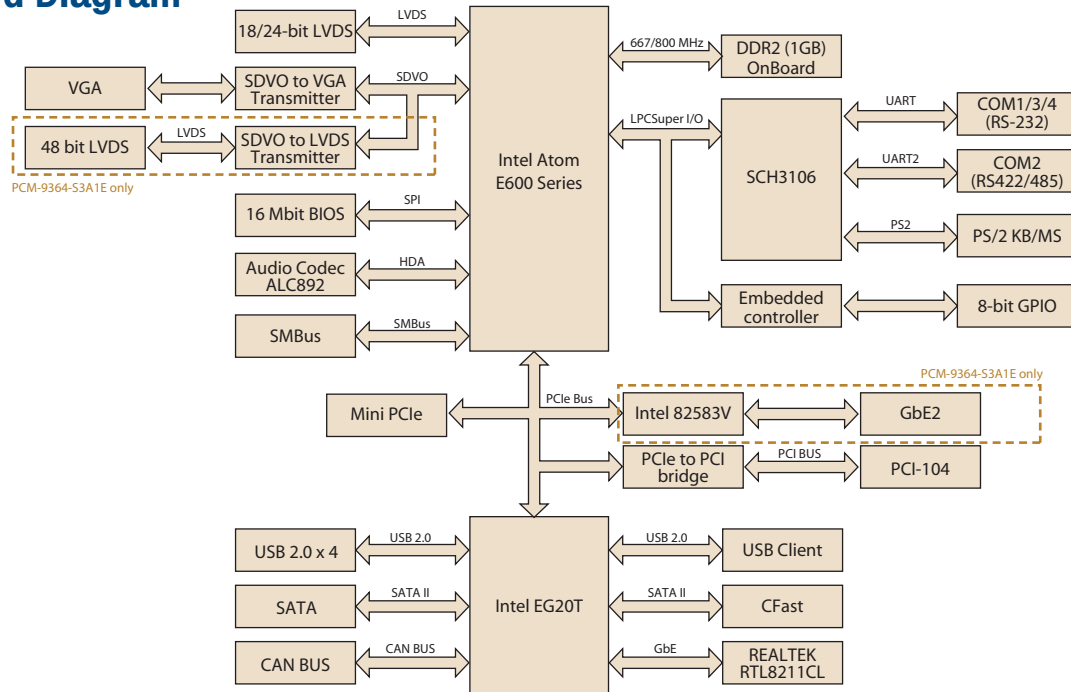
Utilities:



Specifications

Processor System	CPU	Intel Atom E620 600 MHz/ E640 1.0 GHz/ E660 1.3 GHz
	Frequency	600 MHz/1.0 GHz/1.3 GHz
	L2 Cache	512 KB
	System Chipset	Intel E6xx series + Intel Platform Controller Hub EG20T
	BIOS	AMI UEFI 16 Mbit
Memory	Technology	DDR2 800 MHz on board
	Max. Capacity	1 GB
	On board memory	Onboard 512 MB/ 1 GB
Display	Chipset	Intel E6xx series
	VRAM	Optimized shared memory architecture up to 64 MB system memory
	Graphic Engine	Integrated 2D/ 3D graphics engine up to 400 MHz in CPU
		Supports OpenGL® ES2.0, OpenVG® 1.0, DirectX9.0c*
		Decode & Encode in CPU
	LVDS	Encode format: MPEG4, H.263, H.264
		Decode format: MPEG2, MPEG4, VC1, WMV9, H.264
Ethernet	Speed	LVDS1: Supports single channel 18/24-bit LVDS panel, 1280 x 768 @60 Hz (pixel clock rate = 80 MHz)
		LVDS2: Support dual channel 48-bit LVDS Panel
	Controller	VGA Supports 1280 x 1024 @ 85 Hz (pixel clock rate = 160 MHz)
		VGA + LVDS1 or LVDS1 + LVDS2
	Connector	10/100/1000Mbps (Supports Wake on LAN)
Audio	Chipset	GbE1 Realtek RTL8211CL 10/100/1000Mbps
		GbE2 Intel 82583V 10/100/1000Mbps
WatchDog Timer	Output	RJ45 on GbE1, GbE2
Storage	Cfast	Realtek ALC892, High Definition Audio (HD), Line-in, Line out, Mic-in
	SATA	Output System reset, Programmable counter from 1 ~ 255 minutes/ seconds
Rear I/O	Serial	1
	Ethernet	2 (COM1 supports RS-232) (ESD protection for RS-232: Air gap ±15kV, Contact ±8kV)
	VGA	2 (10/100/1000 Mbps)
	USB	1
Internal I/O	USB	2
		2 USB 2.0 + 1 client
	Serial	2 COM ports (ESD protection for RS-232: Air gap ±15kV, Contact ±8kV)
		COM2: RS-422/485 (Supports RS-485 auto flow control)
	SMBUS	COM3/4: RS-232
	PS/2 KB/Mouse	1
Expansion	GPIO	1
	Mini PCI Express Socket	8-bit GPIO
	PCI-104	1 (Half-size)
Power	CAN Bus	1
	Power Type	CANbus, protocol version 2.0B active
		ATX / AT (Support ACPI)
	Power Supply Voltage	Supports single 12V input, ± 10%
	Power Consumption (Typical)	TBD
	Power Consumption (Max, test in HCT)	TBD
Environment	Power Management	ACPI
	Battery	3V/610mA
Physical Characteristics	Operational	0 ~ 60° C (32 ~ 140° F) (operational humidity: 40° C @ 95% RH Non-Condensing)
	Non-Operational	-40° C ~ 85° C and 60° C @ 95% RH Non-Condensing
	Dimensions (L x W)	146 x 102 mm (5.7" x 4")
	Weight	0.85 kg (1.87 lb), weight of total package

Board Diagram



Ordering Information

Part No.	CPU	L2 Cache	Onboard Memory	LVDS1	LVDS2	VGA	GbE1	GbE2	CAN Bus	Audio	RS-422/485	RS-232	USB 2.0	USB Client	SATA II	Cfast	mini PCIe	Thermal Solution	Operational Temp.
PCM-9364-M0A1E	Intel Atom 600 MHz	512 KB L2	512 MB	18/24-bit	-	1	1	-	1	1	1	3	4	1	1	1	1	Passive	0 ~ 60° C
PCM-9364-S0A1E	Intel Atom 1.0 Hz	512 KB L2	1 GB	18/24-bit	-	1	1	-	1	1	1	3	4	1	1	1	1	Passive	0 ~ 60° C
PCM-9364-S3A1E	Intel Atom 1.3 Hz	512K B L2	1 GB	18/24-bit	24/48-bit	-	1	1	1	1	1	3	4	1	1	1	1	Passive	0 ~ 60° C

Note1: Extended temperature P/N TBD.

Packing List

Part No.	Description	Quantity
	PCM-9364 SBC	
	Startup Manual	
	Utility CD	
9689000002	mini Jumper pack	
1700008941	SATA Cable w/ lock 30cm	1
1703060191	PS/2 cable 19cm	1
1700001795	COM3/4 20P-2.0/D-SUB-9P(M)*2 19CM cable	1
1703100152	Audio Cable 20cm	1
1703100121	USB 2 x 5P-2.0 12CM W/BKT cable	1
1703150102	SATA 10cm Power cable	1
1960046414N001	CPU E6xx series heatsink, 50x50x10cm for PCM-9364	1

Optional Accessories

Part No.	Description
TBD	Heat spreader

Embedded OS / API

Embedded OS/API	Description
Win XPE	XPE WES 2009
WinCE	CE 6.0 R3
WES 7	WES 7
Linux	Ubuntu V10.04
QNX	V6.5
Vxwork	V6.8
Software API	SUSI V3.0

Rear I / O View

