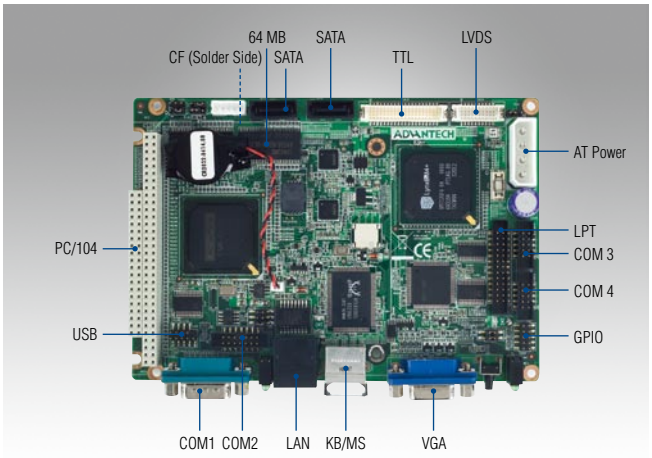
PCM-9342

EVA-X4150 x86 SoC 3.5" SBC, CRT, LCD, LAN, USB, SATA, CF, PC/104



Features

- Low power EVA-X4150 SoC, total less than 6 W power consumption
- Onboard 64 MB SDRAM
- Supports 18-bit TFT LCD
- Supports up to 4 COM ports, 2 USB 2.0 ports
- Supports Serial ATA interface

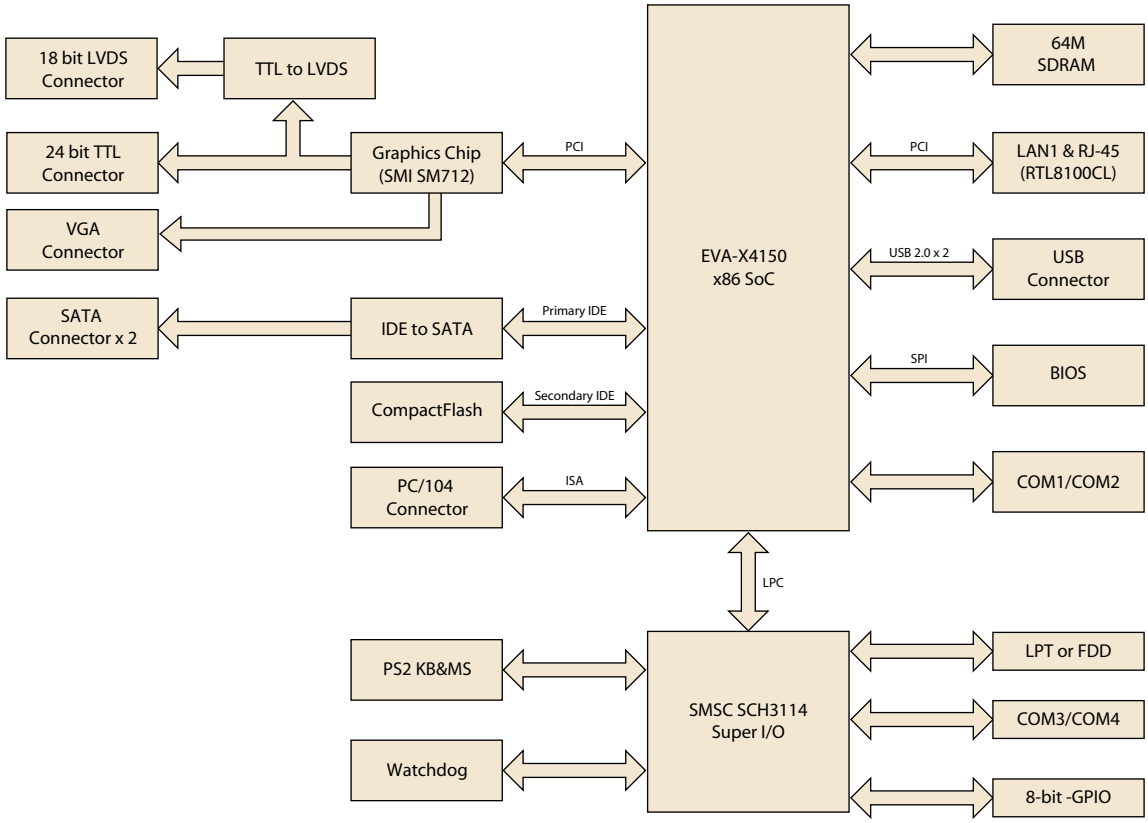
Specifications

Processor System	CPU	Advantech EVA-X4150
	Frequency	133 MHz
	System Chipset	Advantech EVA-X4150 SoC + SMI SM712
	BIOS	Award 4M bit
Memory	Technology	DDR SDRAM
	Max. Capacity	64 MB
	On board Memory	Onboard 64 MB SDRAM
Display	Chipset	SMI SM712 2D graphics chip
	VRAM	4 MB internal memory
	Graphics Engine	62.5 MHz single clock/cycle engine (EM+) 86 MHz single clock/cycle engine (EM4+) Designed to accelerate DirectDraw
	LVDS	1 x 18-bit LVDS (Alternate to TTL)
	VGA	CRT: supports 1024 x 768 @ 24-bit true color
	TTL LCD	TTL: supports 1024 x 768 @ 18-bit TFT LCD panel (Alternative with LVDS)
	Dual Display	CRT + LVDS or CRT + TTL
Ethernet	Speed	10/100 Mbps on LAN
	Controller	Realtek RTL 8100CL
	Connector	RJ-45 on LAN
WatchDog Timer		255 level timer interval, setup by software
Storage	CompactFlash	Supports CompactFlash Card TYPE I/II (Primary Master IDE Channel) Supports 2 channels Ultra-DMA 100
	SATA	2
	Floppy	1 (shared with LPT)
Rear I/O	Serial	1 (COM1 supports RS-232)
	Ethernet	1 (10/100 Mbps LAN1)
	KB/Mouse	1
	VGA	1
	Reset Button	1
Internal I/O	USB	2 x USB 2.0
	Serial	3 COM (COM2, COM3, COM4) COM2 supports RS-232/422/485 COM3/COM4 supports RS-232
	Parallel(LPT)	1 (share with FDD)
	FDD	1 (share with LPT)
	GPIO	8-bit GPIO
Expansion	PC/104 Slot	PC/104 Expansion (8/16-Bit ISA)
Power	Power Type	AT
	Power Supply Voltage	Single +5V boot up, (+12V for LCD, ISA)
	Power Consumption (Typical)	Typical: 1.18 A @ 5 V
	Battery	3 V / 210 mAH
Environment	Operational	0 ~ 60° C (32 ~ 140° F)
	Non-Operational	Operating: 0 ~ 60° C (32 ~ 140° F) (Operating humidity: 40° C @ 85% RH non-condensing) Non-Operating: -40° C ~ 85° C and 60° C @ 95% RH non-condensing
Physical Characteristics	Dimensions (L x W)	146 x 102 mm (5.7" x 4")
	Weight	0.85 kg (1.87 lb), weight of total package

All product specifications are subject to change without notice

Last updated : 22-April-2010

Board Diagram



Ordering Information

Model	CPU	SDRAM	CRT	LVDS	TTL	LAN	Audio	USB 2.0	RS-232	RS-232/ 422/485	LPT	FDD	Expansion	Thermal Solution	Operating Temp
PCM-9342F-64A1E	EVA-X4150	Onboard 64M	1	1	1	1 FE	-	2	3	1	1 (Share FDD)	1 (Share LPT)	PC/104	Passive	0 ~ 60° C
PCM-9342L-64A1E	EVA-X4150	Onboard 64M	-	-	-	1 FE	-	2	3	1	1 (Share FDD)	1 (Share LPT)	PC/104	Passive	0 ~ 60° C
PCM-9342FZ2-64A1E	EVA-X4150	Onboard 64M	1	1	1	1 FE	-	2	3	1	1 (Share FDD)	1 (Share LPT)	PC/104	Passive	-40 ~ 85° C
PCM-9342LZ2-64A1E	EVA-X4150	Onboard 64M	-	-	-	1 FE	-	2	3	1	1 (Share FDD)	1 (Share LPT)	PC/104	Passive	-40 ~ 85° C

Packing List

Part No.	Description	Quantity
	PCM-9342 SBC	
	Startup Manual	
	Utility CD	
1700008894	SATA 7P 30 cm cable	x 1
1700060202	PS2 6P x 2 20 cm cable	x 1
1700100250	COM3/4 IDE D-SUB 25 cm cable	x 2
1701140201	COM2 IDE D-SUB 20 cm cable	x 1
1700260250	LPT IDE 26P D-SUB 25 cm cable	x 1
1703100121	USB 2 x 5P-2.0 12 cm W/BKT cable	x 1
9689000002	mini Jumper pack	

Optional Accessories

Part No.	Description
1700001531	LPT to FDD cable

Embedded OS

Embedded OS	Part No.	Description
WinCE 5.0	2070006989	Image CE 5.0 Pro EVA-4150-4COM V1.1 ENG
WinCE 6.0	2070006949	Image CE 6.0 Pro EVA-4150-4COM V1.1 ENG