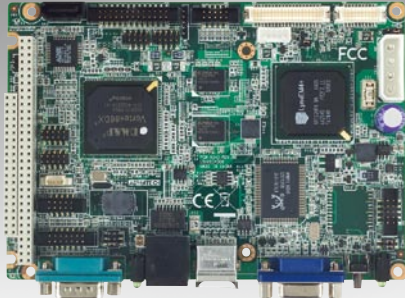


# PCM-9343

DM&P Vortex86DX-1.0 GHz 3.5" SBC, Ultra Low Power, Onboard Memory, Dual LAN, PC/104

NEW



## Features

- DM&P Vortex86DX, onboard DDR2 memory up to 512 MB
- Display type: CRT, 24-bit LVDS, 24-bit TTL
- Supports Floating Point Unit, total power consumption 4 - 6 Watts
- Dual Lan: 10/100 LAN1 and 10/100 LAN2, supports PC/104 (8-bit/16-bit ISA) expansion
- Supports embedded software APIs and utilities, OS: DOS, WinCE, WinXPE and Linux

**Software APIs:**

- Watchdog
- PC
- Brightness
- GPIO
- Backlight On/Off

**Utilities:**

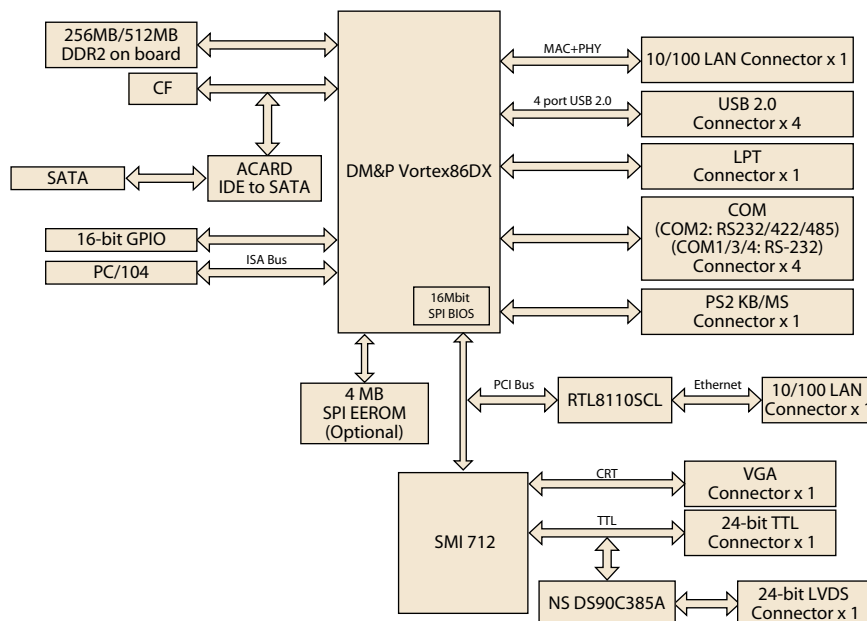
- BIOS flash
- eSOS
- Flash Lock
- Embedded Security ID



## Specifications

Processor System	CPU	DM&P Vortex86DX 1.0 GHz, supports floating Point Unit (FPU)		
	Frequency	1.0 GHz		
	L2 Cache	256 KB		
	System Chipset	DM&P Vortex86DX + SMI SM712		
Memory	BIOS	Award integrated 16 Mbit ROM in SOC		
	Technology	DDR2 333 MHz SDRAM on board		
	Max. Capacity	512 MB		
Display	Onboard memory	Onboard 256 MB or 512 MB		
	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		Supports up to 1024 x 768 @ 24-bit LVDS LCD Panel	
VGA		Supports up to 1024 x 768 @ 85 Hz		
TTL LCD		Supports up to 1024 x 768 @ 24-bit TFT LCD Panel		
Dual Display		CRT + TTL, CRT + LVDS		
Ethernet	Speed	10/100 Mbps on LAN1 10/100 Mbps on LAN2		
	Controller	LAN1: 10/100 Mbps on DM&P Vortex86DX LAN2: 10/100 Mbps on Realtek RTL8110SC		
	Connector	RJ-45 on LAN1, box header on LAN2		
WatchDog Timer		Internal: 2 sets, 32.768 kHz frequency source to count a 24-bit counter so the time range is from 30.5µ sec to 512 sec with resolution 30.5µ sec		
Storage	CompactFlash	Supports CompactFlash card TYPE I/II (Primary Master IDE Channel) Supports 2 channels Ultra-DMA 100		
	SATA	1		
	SPI Flash	Optional onboard 4MB SPI Flash Disk (Supported by request)		
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	4 x USB 2.0		
	Serial	3 COM (COM2, COM3, COM4) COM2 supports RS-232/422/485 COM3/COM4 supports RS-232		
	Parallel(LPT)	1		
	GPIO	16-bit GPIO		
	I <sup>2</sup> C	1		
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)		PCM-9343L-S6A1E: 5V : 0.88 A PCM-9343F-S6A1E: 5V : 0.91 A PCM-9343FG-S6A1E: 5 V : 1.08 A	
		Power Consumption (Max. test in HCT)		PCM-9343L-S6A1E: 5V : 0.746 A PCM-9343F-S6A1E: 5V : 1.09 A PCM-9343FG-S6A1E: 5 V : 1.18 A
			Battery	Lithium 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		

## Board Diagram



## Ordering Information

Part No.	Onboard Memory	TTL	LVDS	CRT	10/100 LAN1	10/100 LAN2	Buzzer	LPT	RS-232/422/485	RS-232	USB 2.0	CF	SATA	Expansion	ATX Power	AT Power	Thermal Solution	Operational Temp.
PCM-9343L-S6A1E	256 MB	-	-	-	1	-	Yes	1	1	1	2	1	-	PC/104	-	Yes	Passive	0 - 60° C
PCM-9343F-S6A1E	256 MB	24-bit	24-bit	Yes	1	-	Yes	1	1	3	4	1	1	PC/104	-	Yes	Passive	0 - 60° C
PCM-9343FG-S6A1E	512 MB	24-bit	24-bit	Yes	1	1	Yes	1	1	3	4	1	1	PC/104	-	Yes	Passive	0 - 60° C
PCM-9343FGZ-S6A1E	512 MB	24-bit	24-bit	Yes	1	1	Yes	1	1	3	4	1	1	PC/104	-	Yes	Passive	-20 - 80° C

## Packing List

Part No.	Description	Quantity
	PCM-9343 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
1700002142	LAN IDE 2.0 15 cm cable	x 1

## Optional Accessories

Part No.	Description
1703150102	SATA 10 cm Power cable

## Embedded OS/API

Embedded OS/API	Part No.	Description
WinCE 5.0	2070009764	CE 5.0 Pro PCM-9343 V1.3 ENG
WinCE 6.0	2070009537	Image CE 6.0 Pro PCM-9343 V1.3 ENG
Win XPE	20070009528	Image XPE for PCM-9343
Software API	2056343000	SUSI 3.0 SW API for PCM-9343 B:20100122 XP

