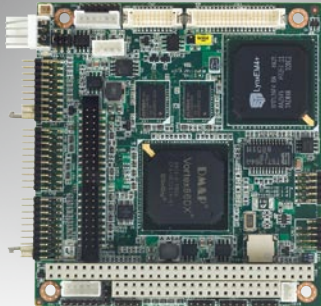


PCM-3343

DM&P Vortex86DX-1GHz PC/104 SBC,
LCD, LAN, CFC, On board memory

NEW



Features

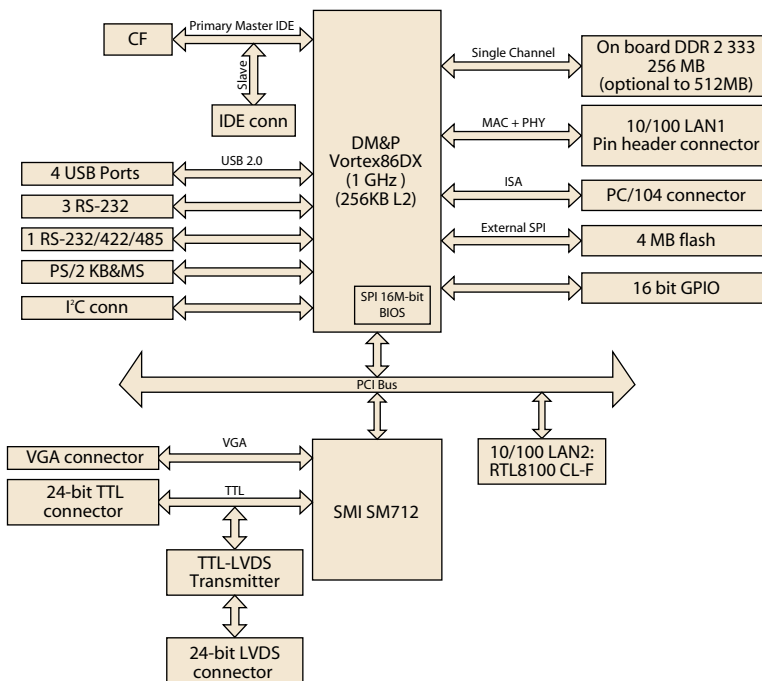
- Ultra low power, fanless DM&P Vortex86DX- 1 GHz and 256 MB on-board DDR2 memory
- CRT+LCD dual video outputs, 24-bit LVDS/TTL support
- Integrated Floating-point Unit
- Supports 2 LAN ports in standard PC/104 96 x 90 mm dimension
- Supports Embedded Software APIs and Utilities



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- 1 GHz	
	BIOS	Award integrated 16 Mbit ROM in SOC	
Memory	Technology	DDR2 333 MHz SDRAM on board	
	Max. Capacity	512 MB	
	On board memory	On board 256 MB (512 MB supported by request)	
Display	Chipset	SMI SM712	
	VRAM	4 MB internal memory	
	Graphic 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
	CRT		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	
	Controller	LAN1: FE LAN on Vortex86DX SOC LAN2: FE LAN RTL8100C-LF	
	Connector	Pin header	
Watchdog Timer		System reset Software programmable from 30.5µ sec. to 512 sec. x 2 sets	
Storage	CompactFlash	Compact Flash socket(Type I/II),shared with primary IDE	
	IDE	1	
	SPI Flash	Optional onboard 4 MB SPI Flash Disk (Support by request for boot device or storage on DOS OS)	
Internal I/O	USB	4 x USB 2.0	
	Serial	3 RS-232, 1 RS-232/422/485	
	IDE	1	
	KB/Mouse	1	
	GPIO	16-bit general purpose input/output	
	I ² C	1	
Expansion	PC/104 slot	1	
Power	Power Type	AT	
	Power Supply Voltage	5V only to boot up (12 V is optional for LCD inverter and add on card)	
	Power Consumption (Typical: Idle in WinXPe)	0.74 @ 5 V (Vortex86DX 1 GHz, DDR2 667 256 MB)	
	Power Consumption (Max, test in passmark burn-in program)	0.85 A @5 V (Vortex86DX 1 GHz, DDR2 667 256 MB)	
	Battery	3 V/210 mA	
Environment	Operation	0 - 60° C (32 - 140° F) (operation humidity: 40° C @ 85% 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	0.097 kg (0.214lb)	

Board Diagram



Ordering Information

Model	CPU	L2 Cache	Memory	CRT	LVDS	TTL	LAN	USB 2.0	RS-232	RS-232 /422/485	IDE	KB/MS	External SPI flash	Thermal solution	Expansion	Operation Temp
PCM-3343L-256A1E	DM&P Vortex86DX 1 GHz	256 KB	Onboard 256M	-	-	-	1 FE	2	1	1	1	Yes	-	Passive	PC/104	0 - 60° C
PCM-3343F-256A1E	DM&P Vortex86DX 1 GHz	256 KB	Onboard 256M	Yes	Yes	1	2 FE	4	3	1	1	Yes	-	Passive	PC/104	0 - 60° C
PCM-3343Z-256A1E	DM&P Vortex86DX 800 MHz	256 KB	Onboard 256M	Yes	Yes	1	2 FE	4	3	1	1	Yes	-	Passive	PC/104	-20 - 80° C
PCM-3343Z2-256A1E	DM&P Vortex86DX 800 MHz	256 KB	Onboard 256M	Yes	Yes	1	2 FE	4	3	1	1	Yes	-	Passive	PC/104	-40 - 85° C

Packing List

Part No.	Description	Quantity
	PCM-3343 SBC	
	Startup Manual	
	Utility CD	
1700060202	CABLE 6P-6P-6P PS/2 KB & MOUSE 20 cm	x 1
1703060053	PS2 Cable 6P (MINI-DIN)-6P (Wafer 2.0 mm) 6 cm	x 1
1703100260	USB cable 2 port 2.0 mm pitch w/ bracket 26 cm	x 1
1701200220	RS-232 x 2 ports 2.0mm pitch 22 cm	x 1
1703040157	RS-422/485 W/D-SUB COM 4P 15 cm	x 1
1700000898	VGA cable D-SUB 15P(F)/12P-1.25 mm 15 cm	x 1
1700017863	LAN cable RJ45/2 x 5P-2.0 15 cm	x 1
9660104000	PC/104 screw and copper post package	x 1

Optional Accessories

Part No.	Description
1701440350	IDE cable 44P/44P/44P 35 cm

Embedded OS/API

Embedded OS/API	Part No.	Description
WinCE 5.0	2070009763	CE 5.0 Pro PCM-3343 V1.3 ENG
WinCE 6.0	2070009536	CE 6.0 Pro PCM-3343 V1.3 ENG
Win XPE	2070009528	XPE WES2009 Vortex86DX V4.0 ENG
	2070009529	XPE WES2009 Vortex86DX V4.0 MUI24
Software API	205E343000	SUSI 3.0 SW API for PCM-3343 B:20091209 XP

