

CM1-86DX3

Extreme Rugged™ PC/104 Single Board Computer with Vortex86DX3 System-on-Chip

Features

- Ultra low power, DM&P Vortex86DX3 SoC
- Full ISA bus support
- 2GB soldered DDR3L
- 1x GbE, 1x Fast Ethernet
- SATA, CFast
- VGA and 18/24-bit single channel TTL/TFT
- Supports Smart Embedded Management Agent (SEMA) functions



Specifications

Core System

CPU Memory BIOS	Vortex86DX3 SoC, 1.0 GHz 2GB soldered DDR3L AMI BIOS, integrated in SoC	Standard Support Extended Support	WES2009, WES7, Linux, QNX WEC7, WinCE 6.0 (on request)
SEMA®	Yes		
Hardware Monitor	2x LAN, watchdog	Power	
Watchdog Timer	Yes, 3 different	i owei	
Expansion Busses	PC/104 (ISA)	Standard Input	AT mode (5V DC +/-5%)
		Power States	No ACPI
Video		Power Consumption	Арргох. ~ 6 to 7 W

Video

VGA Interface	Yes
LVDS Interface	18/24-bit single channel

Ethernet

Standard	1x integrated PHY (10/100 Mbit)
	1x Intel® i210IT (10/100/1000 Mbit)

I/O Interfaces

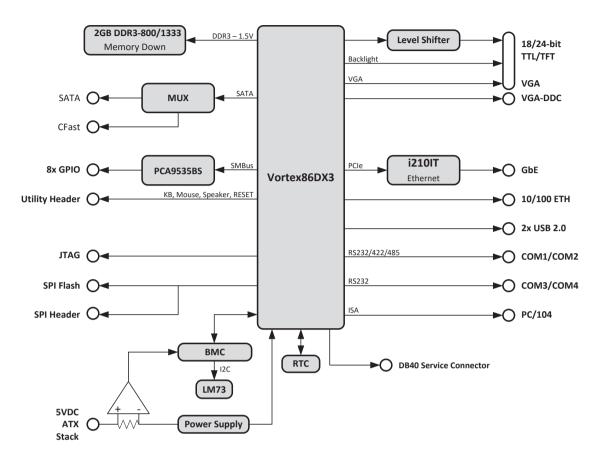
USB	2x USB 2.0
SATA	1x SATA
Serial	2x RS-232/422/485 serial ports,
	2x RS232 serial ports
PS2	Keyboard and mouse
GPIO	Standard: 8x

Mechanical and Environmental

Operating Systems

Form Factor	PC/104 Specification 2.6	
Dimensions	96 mm x 90 mm (3.775" x 3.550")	
Operating Temperature Standard: 0°C to +60°C		
Humidity	10% to 90% (non-condensing)	
Shock and Vibration	Non-operating: 50G peak-to-peak, 11ms	
	duration, MIL-STD-202G Method 213B	
	Operating: 11.95 Grms, 50-2000 Hz, each axis,	
	MIL-STD-202G Method 214A	
Storage Temperature	-55°C to +85°C	
Cooling	Passive	

Functional Diagram



Intelligent Middleware



Middleware Name **SEMA®** Description Local management, control of embedded computer systems Extended EAPI for monitoring, controlling and analytics applications Multiple OS support and across platforms (x86, ARM)

Intelligent IOT Platform



Platform Name	SEMA Cloud®
Description	Application ready comprehensive industrial
	grade IoT Platform
	Connecting Devices to a Cloud Platform and to
	Web Applications
	Remote monitoring and controlling managing of
	connected devices
	Enabling integration of operational device data
	into business processes
	Cloud based Platform as a Service (PaaS)

Ordering Information

- CM186DX3 PC/104 with Vortex 86DX3, 2GB soldered DDR3, 10/100 Ethernet, GbE, CFast socket, TTL LCD and VGA display
- CM1-86DX3-X-01 CM1-86DX3 cable kit
- CM1-86DX3-TM-10 CM1-86DX3 Aluminum heatsink

*other configurations by request



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