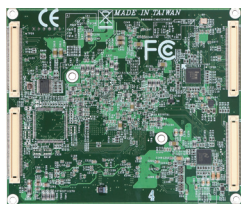
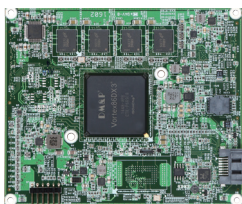


PEM-E205VLA

Vortex DX3 processor based on ETX 3.02 module with DDR3 Memory down, VGA, LVDS, PCI, ISA, IDE and USB



FEATURES

- Support DDR3 Memory-down, up to 2GB
- One VGA and LVDS, FastEthernet interface
- Support industrial temperature -25°~70°C



Portwell PEM-E205VLA is designed with DMP 1.0 GHz Dual-Core processor, with less than 5W overall TDP, PCI and dual 24bit LVDS support it is suitable for industrial and transportation applications. Expansion for the PEM-E205VLA ETX module includes ISA interface with controllers integrated into processor-enhancing capabilities to support 8/16-bit ISA device with Zero-Wait-State. In addition, the module supports dual displays, VGA and LVDS. The resolution for one display interface supports up to 1920x1440@60Hz.

General

Product	PEM-E205VLA
Form Factor	ETX 3.02, 114x95 mm
Processor	Vortex86DX3 SoC
Core	2
Freq.	1 GHz
Turbo	N/A
Cache	L1 32KB, L2 512KB
Processor Graphics	GPU integrated in Vortex 86DX3
Graphics Base Frequency	N/A
Graphics Max Dynamic Frequency	N/A
HW Encoding	Contact us
HW Decoding	H.264
HW Acceleration	Contact us
Processor TDP	5W
BIOS	AMI BIOS
ECC Memory Supported	No
Memory	On board DDR3 memory up to 2GB

I/O Interface

SATA	1x SATA I (Option to 1x NAND-Flash)	
IDE	1x IDE	
USB	4x USB2.0	
Ethernet	1x RTL8119L GbE controller	
Serial I/O	GPIO	N/A
	I ² C	Baud rate: 400KHz
	SMBus	Baud rate: 100KHz
	UART	2x UART
PEG	N/A	
PCI Express	N/A	
Display	VGA	1920x1440@ 60Hz
	LVDS	1920x1200, single, dual channel, 18/24 bit)
Security	Contact us	

MECHANICAL & ENVIRONMENT

Dimension	114x95 mm
Power DC IN	5V,3V, 5VSB, VBAT, AT/ATX mode
Storage Temperature	-40°C ~ 80°C
Operating Temperature	-25°C ~ 70°C
Certification	Contact us
MTBF	Over 120,000 hours at both 35° C and 55° C
Vibration	Random 5Hz to 2KHz, 7.7 grms, 10min in each of 3 axes
OS	Windows for Workgroups 3.11 / Windows XP Embedded Standard 2009 and higher / Windows 7 Embedded Linux (Kernel >= 2.4)/ RTOS32 MS DOS 6.22 / FreeDOS

BLOCK DIAGRAM

ORDERING GUIDE

Product	Ordering P/N	Status
PEM-E205VLA	AB1-3H82Z	Available

Accessory	Ordering P/N	Status
PEM-C200	AB1-3246	Available
Heat spreader	B8308090	Available

PEM-E205VLA

ETX® 3.0
114x95 mm

AT/ATX Mode

-40°C ~ +80°C

5V DC-in

