

PPM- C393

Intel® Pineview based PC/104-PLUS embedded board base on PC/104 v2.5 and PC/104-PLUS v2.0 specification compliant



Portwell PEM-P393 is a PC/104-PLUS single board computer which uses Intel® Pineview N455 single core 1.66 GHz processor paired with the ICH8M I/O controller hub. It includes one SODIMM socket for DDR3 system memory and one Compact Flash socket.

The PC/104-PLUS module is a full-featured unit with on-board I/O that supports CRT/LVDS simultaneously, Gigabit Ethernet port, eight USB 2.0 ports, four RS232 (two 422 /485 selectable COM channels), 24 digital I/O lines with event sense, HD audio and a watchdog timer. Additionally, it has a PC/104-Plus connectors for I/O expansion. The low power, high performance and fan-less requirement, it is suitable for Automation, Medical, Transportation, Security, Military and HMI applications.

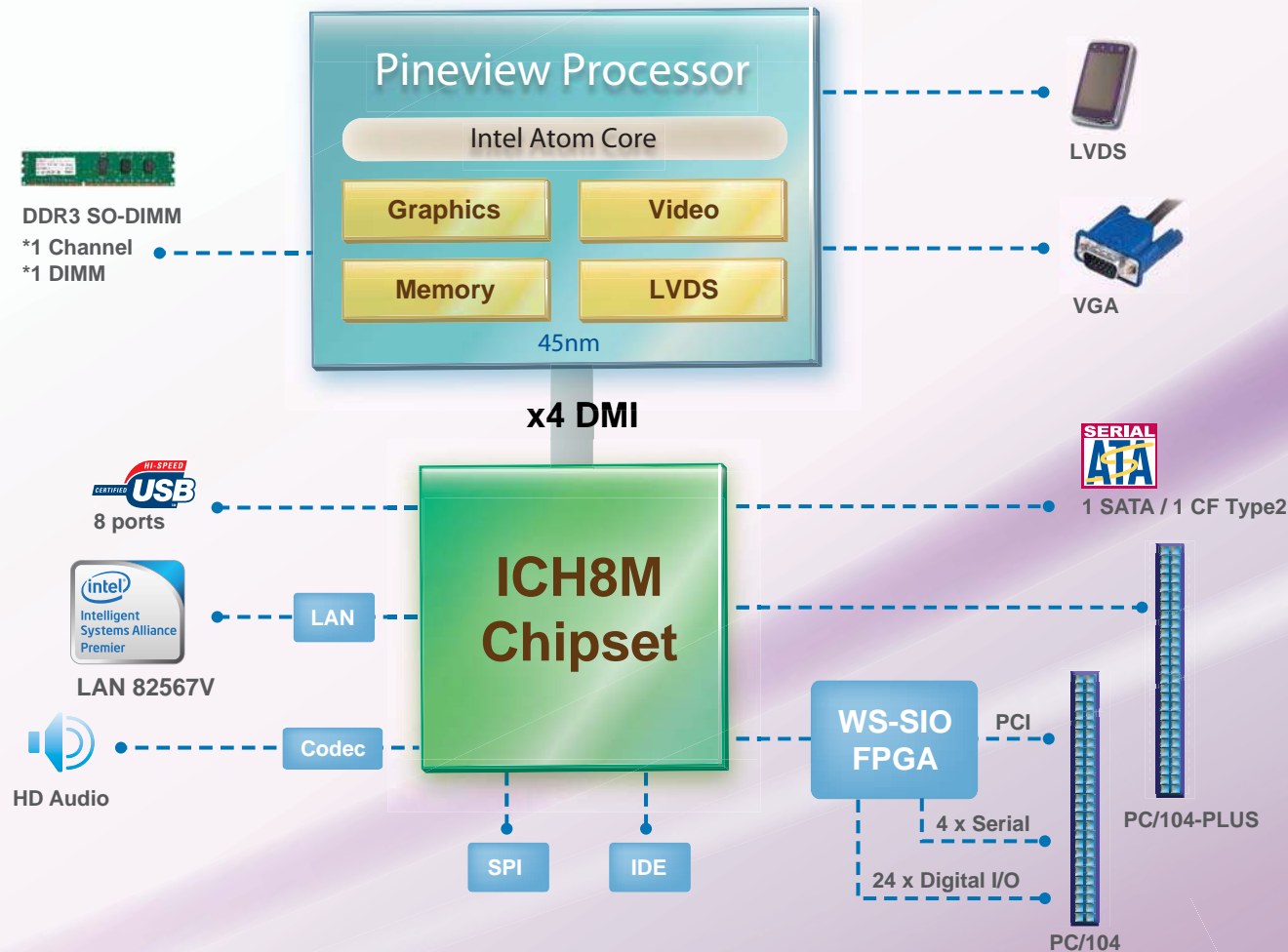
FEATURES

- The Intel® Atom N455 embedded processor and ICH8M platform provides cost effective solutions with low power and single core processor technology
- Supports one DDR3 800MB SDRAM, UP to 2GB
- Supports eight USB2.0, four RS232 (two 422/485 selectable)
- Supports dual independent displays of 18/24bits LVDS and VGA

ORDERING GUIDE

AB1-3873Z

(R).PPM-C393-N455.PC/104 Plus



Processor Core

- ◆ Pineview Core (45nm) N455
- ◆ 512KB Shared Last Level Cache
- ◆ SMT: 4 threads/core
- ◆ Turbo mode

Highlights

- ◆ Integrated Memory Controller: 1 Channels of Native DDR3 support
- ◆ Integrated Native PCI-E Gen 1 support
- ◆ Integrated Native PCI support

Memory

- ◆ DDR3-800 MT/s, N455 up to 2GB
- ◆ 1 Memory Channels
- ◆ 6.4 GB/s Peak Memory Bandwidth

Platform Thermal Design Power



N455

6.5W



ICH8M

2.4W



15.4W