

PXM- C388

Intel® Pineview based PC/104 embedded board base on PC/104 v2.5 and SUMIT AB interface v1.5 compliant.



Portwell PEM-P388 is a SUMIT-ISM PC/104 module designed with Intel® Pineview N455 single core 1.66 GHz processor paired with the ICH8M I/O controller hub. Due to low power consumption, high performance and fan less requirement, it is suitable for Automation, Medical, Transportation, Security, Military and HMI applications.

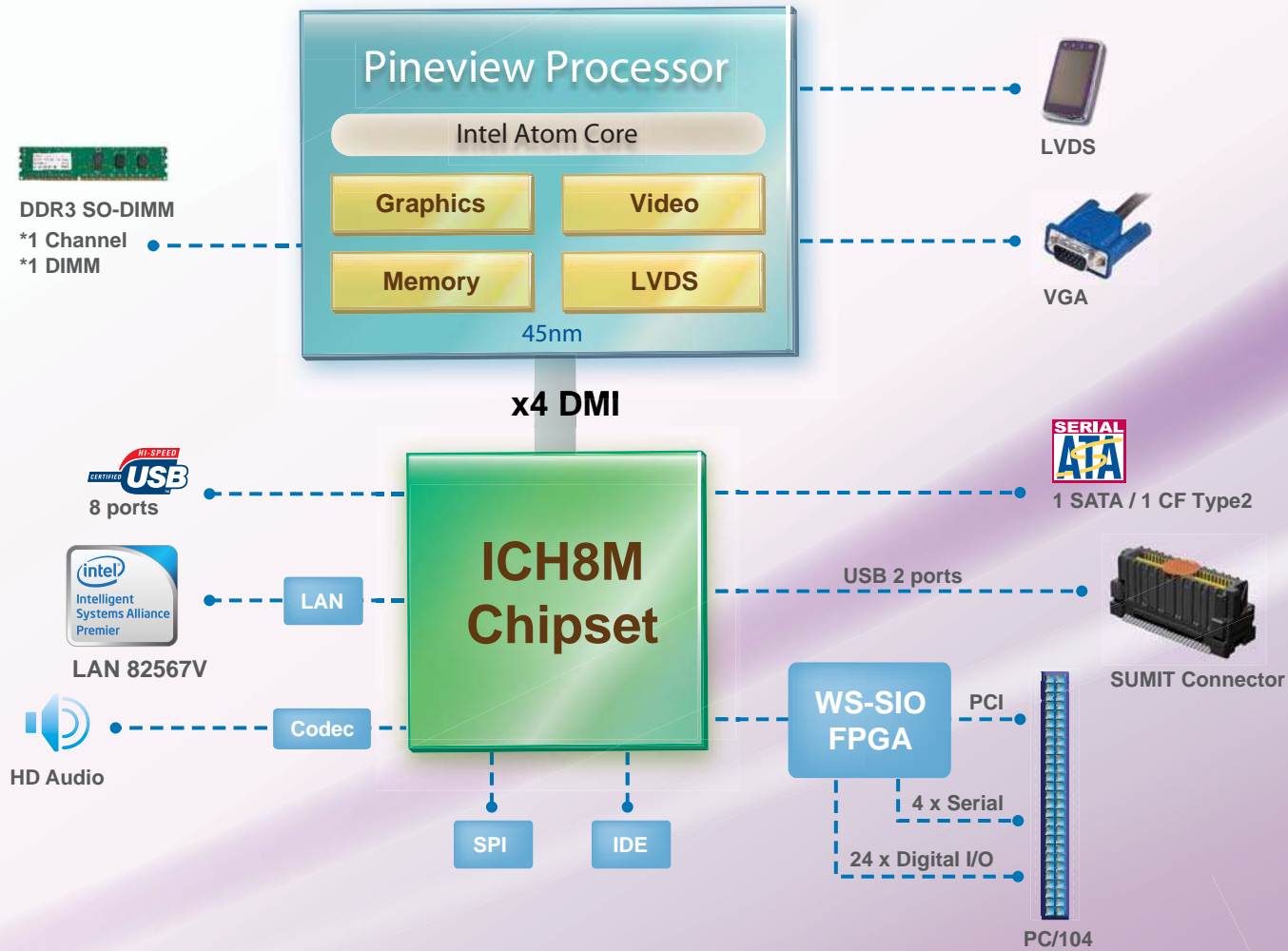
The PC/104 module is a full-featured unit with on-board I/O that supports CRT/LVDS simultaneously, Gigabit Ethernet port, eight USB 2.0 ports, four RS232 (two 422/485 selectable COM channels), 24 digital I/O lines with event sense, HD audio, watchdog timer and two SUMIT connectors. It also has a PC/104 connector for additional I/O expansion. With 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 that 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

AB1-3872Z	(R).PXM-C388-N455.PC104
B8305090	PXM-C388.Heat Sink
B8305080	PXM-C388.Heat Spreader



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

Memory

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

Platform Thermal Design Power



N455

6.5W



ICH8M

2.4W



15.4W