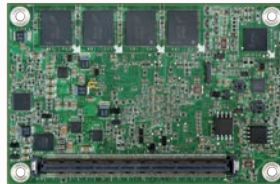# PCOM-BA00

Type 10 module based on COM Express® Rev 2.1 is designed as fan-less system solution (eg. tablet device, industrial thin client system, etc.), also as flexible embedded solution for vesatile verticle markets

Intel® Atom™ E3800 series SoC based on type 10 Mini COM Express® module with DDR3L SDRAM, NANDrive, DDI support, USB3.0

PCOM-BA00 is the latest Mini COM Express® by 84mm x 55mm with Intel® Bay Trail E3800 series SoC supports PCI Express, dual display, NANDrive storage features.
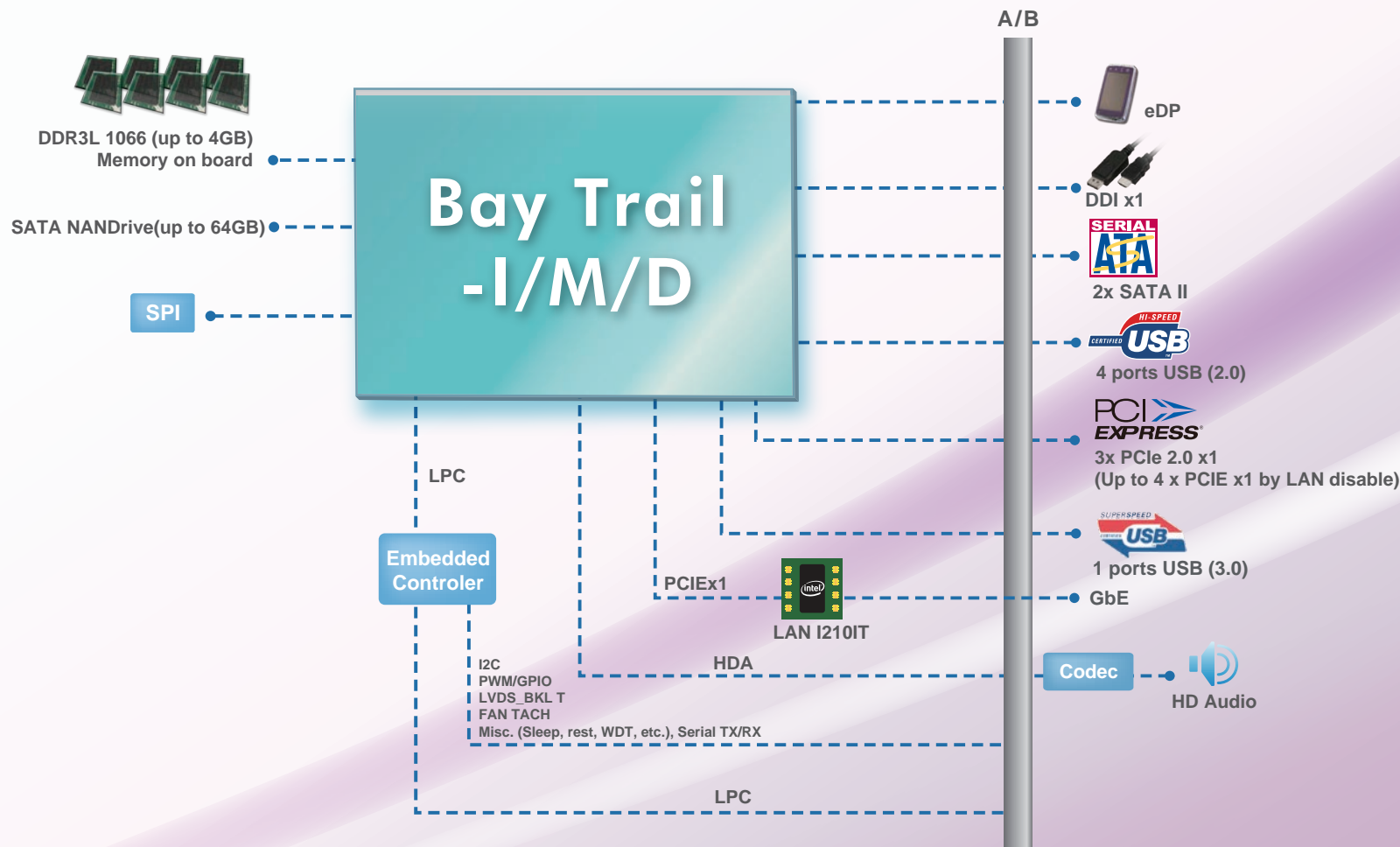
By low power consumption, wide-temp support, better computing, Portwell promotes with confidence PCOM-BA00 as vertical solution to aim at versatile applications, such as Automation, Military, Networking, Transportation, and so on.

FEATURES

- Atom™ Bay Trail SoC E3800 series processor with industrial support

- Up to 4GB DDR3L memory-down

- Three PCIe lanes (optional to Four)

- Support 1x USB 3.0, 4x USB 2.0

- Support NANDrive storage by SATA channel

ORDERING GUIDE

AB1-3B48	(R).PCOM-BA00-E3845-4G with MOQ
AB1-3B51	(R).PCOM-BA00-E3845-2G
AB1-3B50	(R).PCOM-BA00-E3827-2G
AB1-3B47	(R).PCOM-BA00-3825-2G with MOQ
AB1-3B49	(R).PCOM-BA00-3815-2G

Bay Trail -I/M/D

DDR3L 1066 (up to 4GB) Memory on board

SATA NANDrive(up to 64GB)

SPI

A/B

eDP

DDI x1

SERIAL ATA
2x SATA II

HI-SPEED CERTIFIED USB
4 ports USB (2.0)

PCI EXPRESS
3x PCIe 2.0 x1
(Up to 4 x PCIE x1 by LAN disable)

SUPERSPEED USB
1 ports USB (3.0)

GbE

LPC

Embedded Controler

PCIEx1

LAN I210IT

I2C
PWM/GPIO
LVDS_BKL T
FAN TACH
Misc. (Sleep, rest, WDT, etc.), Serial TX/RX

HDA

Codec

HD Audio

LPC

Processor Core

◆ Atom™ Bay Trail (SoC) with QC, DC, & Uni core SKUs

◆ 512KB~2MB Shared Last Level Cache

◆ SMT: 1 threads/core

Highlights

◆ Intergrated Memory Controller: 1 Channels of Native DDR3L support

◆ Intergrated Native PCI Express, option to 4

◆ USB 3.0 x1

◆ NANDrive support

◆ Wild-temp support

Memory

◆ DDR3L 1066/1333 MT/s

◆ Up to 4GB 512x8

◆ Memory on board

Platform Thermal Design Power

CPU	E3845 4C	E3827 2C	E3815 1C
Watt	10W	8W	5W

Portwell

M.I.T

PCOM

PQ7

PSMC

Compliance