

PCOM-BA00

Type 10 Mini COM Express module based on Intel® Atom™ E3800 Family Processor series SoC with DDR3L SDRAM, NANDrive, LVDS/DDI and USB 3.0

Intel® Atom™ processor E3800 family, 22nm process technology

Onboard DDR3L SDRAM 1066/ 1333 MHz



Embedded Controller

(Optional) Onboard SATA SSD up to 64GB

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, side-temp support, better computing, and cost effective, Portwell promotes with confidence PCOM-BA00 as vertical solution to aim at versatile applications, such as Automation, Military, Networking, Transportation, and so on.

GENERAL

Processor	Intel® Atom™ processor E3800 family, 22nm process technology - Intel® Atom™ E3845 1.91GHz quad-core CPU - Intel® Atom™ E3827 1.75GHz dual-core CPU - Intel® Atom™ E3815 1.67GHz single-core CPU
BIOS	Phoenix BIOS Support UEFI 2.0, ACPI 3.0, SMBIOS 2.7 compatibility support module
Memory	Supports On-board DDR3L 1066/1333 MT/s SDRAM, up to 4GB
Storage Devices	- 2x SATA 3.0Gb/s - (Optional) On board SATA SSD
Watchdog Timer	Programmable via S/W from 1 sec to 255 min
Expansion Interface	- 4x PCI Express x1 Gen1 (2.5GT/s) of which can be configured to one PCI Express x4 Gen1 or 3x PCI Express x1 + 1x GbE LAN (Intel i210) - SPI Interface - SM Bus interface - I2C interface - UART interface

FEATURES

- Intel® Atom™ Bay Trail SoC E3800 series processor with industrial support.
- On Board DDR3L SDRAM and up to 4GB
- Three PCI Express lanes (optional to four)
- Support one USB 3.0, four USB 2.0
- Support NANDrive storage by SATA channel
- Wide-Temp support

I/O INTERFACE

Super I/O	N/A
Audio	Intel® High Definition Audio (2x channels delivering 192-KHz 32-bits, and 8x channels delivering 96-KHz 32-Bits)
Ethernet	One GbE LAN (Intel® i210)
USB	4x USB 2.0 1x USB 3.0
GPIO	8bit configurable controlled by embedded controller

DISPLAY

Graphic Controller	Intel® Gen7 Graphics supports DX 11.1, OpenGL 3.0/ ES 2.0
Display Interface	- eDP: Resolution up to 2560 x 1600 - DP: Resolution up to 2560 x 1600

Mechanical & Environment

Dimension	84mm (L) x 55mm (W)
Power Supply	Support wide voltage input 6V~19V
Environment	- Operation temperature: -40~85°C - Storage temperature: -40~85°C - Relative humidity: 5~95%, non-condensing

ORDERING GUIDE

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



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