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Portwell PCOM-BA02GL

pic:



pn:

PCOM-BA02GL

formfactor:

COM Express Type 10

manufacturer:

Portwell

cpu:

Intel Atom x6000E

emmc:

16/32 GB

ram:

4/8/16 GB LPDDR4

temprange:

0...+60 °C, -40...+85 °C

edp:

1 (or LVDS)

dp:

1 DP/HDMI/VDI

lvd:

Single Channel via eDP<>LVDS IC (or eDP)

ethernet:

1 (1GBit? 2.5 GBit?, SGMII? PCIe?) (GPY215? I210AT?)

dsi:

-

csi:

-

usb2:

6(8)

usb3:

2

can:

-?

uart:

2 from EC

spi:

+ (BIOS, TPM 2.0)

pcie:

x4 x 1, x2 x 2, x1 x 4 gen 3

i2:

HDA

i2c:

1 (from EC\CPU)

smbu:

1 (from EC\CPU)

gpio:

4 GPI, 4 GPO from EC (or SDIO 3.0 from CPU option)

bmc:

EC (IT5121VG-I-128)

tpm:

TPM 2.0

sata:

2 SATA III

sdio:

SDIO 3.0 (option)

bio:

AMI BIOS

dimension:

84 x 55 mm

lpc:

+ (eSPI<>LPC ECE1200????)

espi:

-

datasheetwww:

[link](#)

datasheet:

[link](#)

struct:



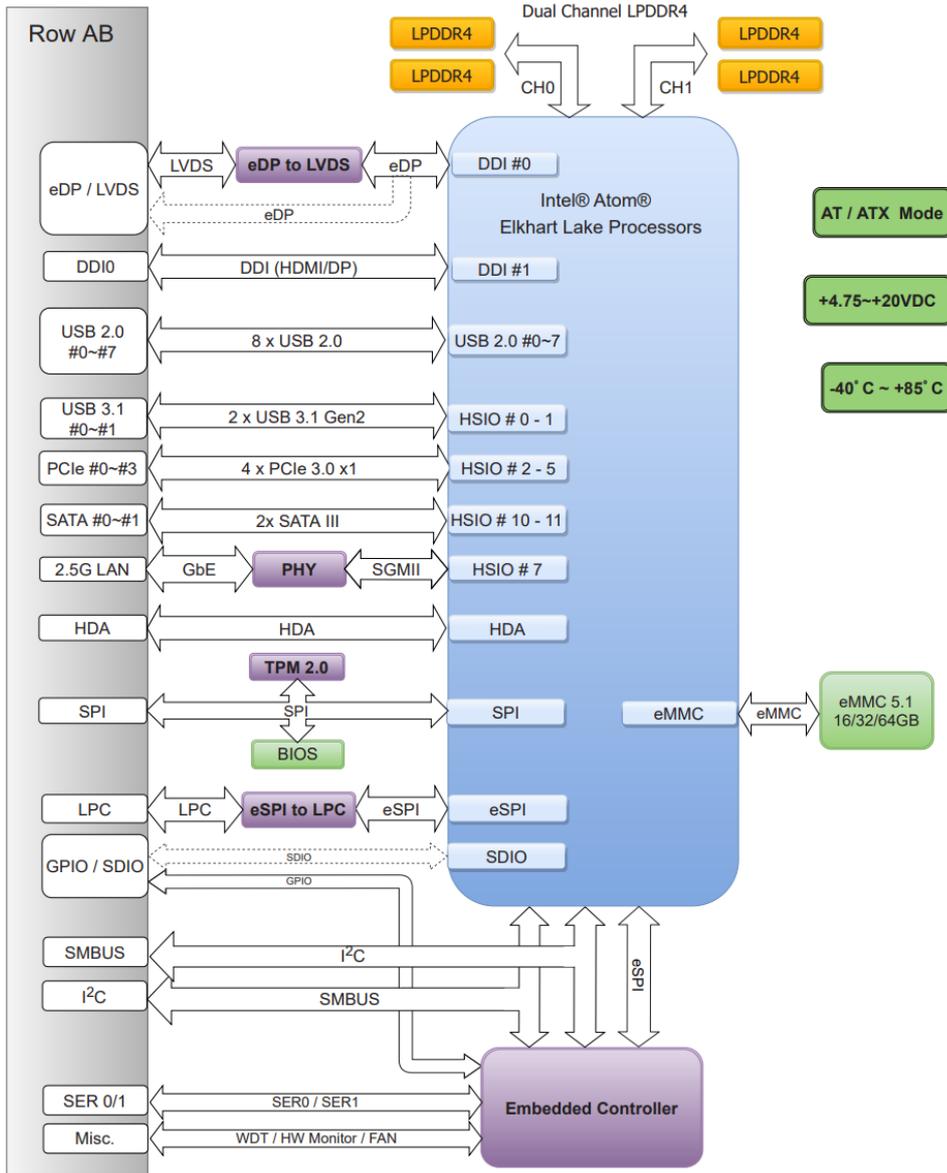
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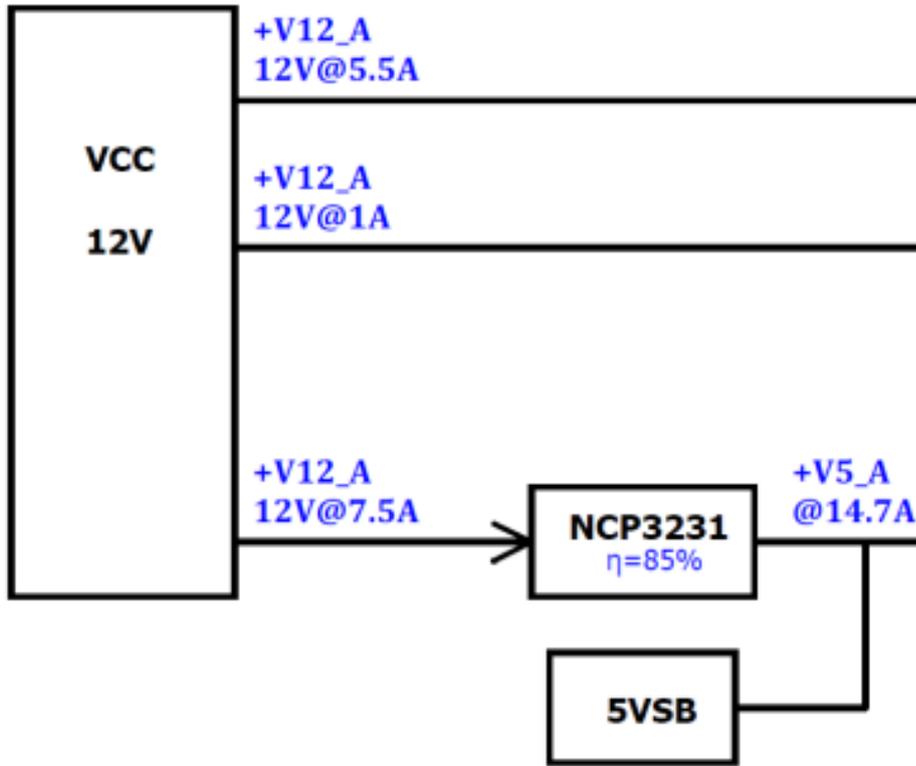
power:

4.75V to 20V, AT/ATX Mode





Power Distribution



docs

| | | | |
|----------------|-----------|------------------|----------------------|
| PCOM-BA02GL | Portwell | SOM flyer | link |
| PCOM-BA02GL | Portwell | User's guide | link |
| PTN3460 | NXP | eDP<>LVDS bridge | link |
| IT5121VG-I-128 | ITE | EC | |
| ECE1200 | Microchip | eSPI<>LPC | link |

USB

| | | |
|-------|--------|----------------------|
| USB 0 | HSIO 0 | from XHCI controller |
| USB 1 | HSIO 1 | from XHCI controller |

PCIe

| | |
|-------|--------|
| PCIE0 | HSIO 2 |
| PCIE1 | HSIO 3 |
| PCIE2 | HSIO 4 |
| PCIE3 | HSIO 5 |

SATA

| | |
|-------|---------|
| SATA0 | HSIO 10 |
| SATA1 | HSIO 11 |

LPC

LPC Bus is supported by a eSPI-to-LPC bridge IC