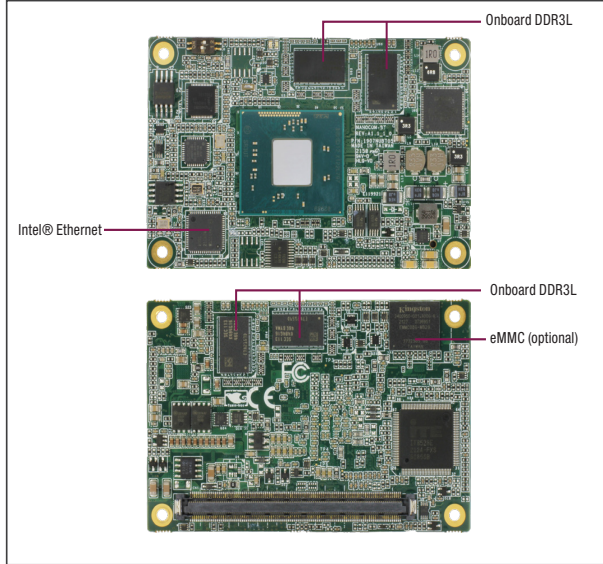


NanoCOM-BT

COM Express Type 10 with Intel Atom® E/Celeron® Processor N Series Processors

COM Express CPU Modules



Features

- Onboard DDR3L, up to 2GB
- Onboard eMMC, up to 8GB
- LVDS x 1, DDI x 1
- USB 2.0 x 7, USB 3.2 Gen 1 x 1
- PCIe [x1] x 3
- Intel® I210-AT GbE x 1
- COM Express Type 10, 3.31" x 2.17" (84mm x 55mm)



Specifications

| System | |
|-----------------------------|---|
| Form Factor | COM Express Mini Size, Type 10 |
| CPU | Intel Atom® Processor E Series: Intel Atom® Processor E3845 (4C/4T, 1.91 GHz, 10W) Intel Atom® Processor E3825 (2C/2T, 1.33 GHz, 6W) Intel® Celeron® Processor N Series: Intel® Celeron® Processor N2930 (4C/4T, 1.83 GHz, 7.5W) Intel® Celeron® Processor N2807 (2C/2T, 1.58 GHz, 4.3W) |
| Chipset | Integrated with Intel® SoC |
| Memory | Onboard DDR3L 1333MHz, up to 2GB |
| Onboard Storage | eMMC, up to 16GB (Optional) |
| BIOS | AMI UEFI |
| Wake on LAN | Yes |
| Watchdog Timer | 255 Levels |
| Dimension | 3.31" x 2.17" (84mm x 55mm) |
| Security | — |
| Power | |
| Power Requirement | +12V and +5VSB for ATX, +12V for AT |
| Power Type | AT/ATX |
| Power Consumption (Typical) | Intel Atom® Processor E3845, 0.7A @+12V |
| Display | |
| Graphics Controller | Intel® HD Graphics |
| Video Output | Dual Display: DDI x 1, up to 2560 x 1440 18/24-bit Single-Channel LVDS/eDP x 1, up to 1366 x 768 |
| I/O | |
| Ethernet | Intel® I210-AT/IT GbE x 1 |
| Audio | High Definition Audio Interface |
| USB Port | USB 2.0 x 7, USB 3.2 Gen 1 x 1 |
| Serial Port | 2-Wire UART x 2 (Tx/Rx) |
| HDD Interface | SATA II x 2 |
| Expansion | PCIe 2.0 [x1] x 3 LPC x 1 |
| GPIO | 8-bit |

| SMBus/I2C | I2C x 1, SMBus x 1 |
|-----------------------|---|
| Environment | |
| Operating Temperature | 32°F ~ 140°F (0°C ~ 60°C) Optional: -40°F ~ 185°F (-40°C ~ 85°C) |
| Storage Temperature | -40°F ~ 185°F (-40°C ~ 85°C) |
| Operating Humidity | 0% ~ 90% relative humidity, non-condensing |
| EMC | CE/FCC Class A |
| OS Support | Windows® 10 (64-bit) Linux Ubuntu 16.04.7/Kernel 4.15.0 |
| Weight | 0.15 lb. (0.07Kg) |

Packing List

- NANOCOM-BT

Optional Accessories

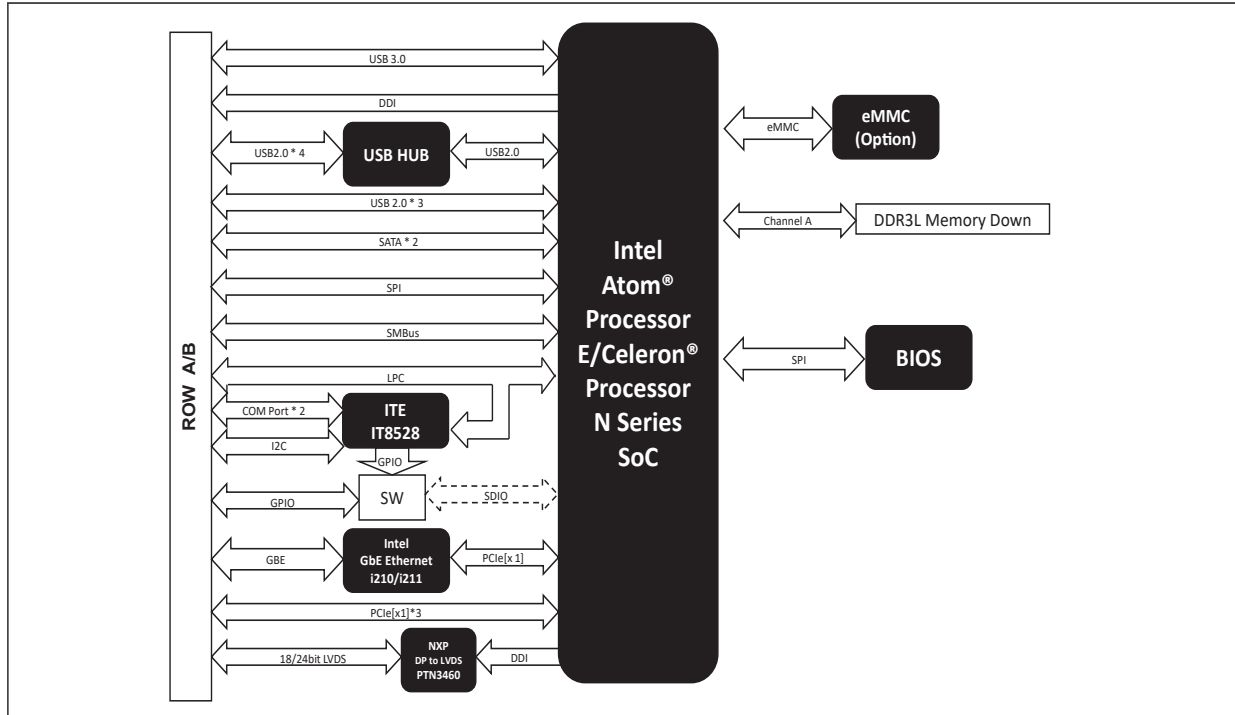
| Part Number | Description |
|-------------------|---|
| ECB-920A-A11-0001 | COMe Type 6/10 Carrier Board. ATX. 2.5GbE. 8USB. 2COM. 4SATA. PCIe. AT/ATX. Rev. A1.1 |
| NANOCOM-BT-HSP02 | Heat Spreader. 84 x 55 x 11mm. Black. NanoCOM-BT |
| NanoCOM-FAN01 | Cooler. 84 x 55 x 22.2mm. use w/HSP |
| NANOCOM-HSK01 | Heatsink. 84 x 55 x 26.5mm. use w/HSP |

NanoCOM-BT

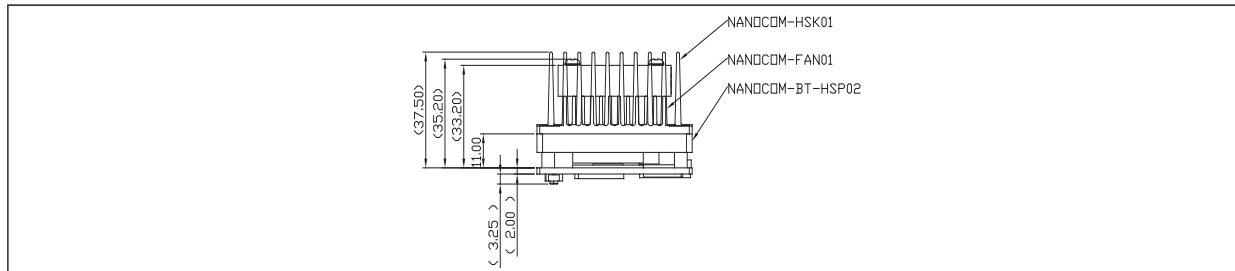
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COM Express CPU Modules

Block Diagram Unit: mm



Dimension Unit: mm



Ordering Information

| Part Number | COM Express Type | CPU | Memory | ECC support | Display | Storage | LAN | USB | UART | Expansion | Power | Temperature | Others |
|---------------------|------------------|---------------------------------|-------------------|-------------|-------------------|-----------------------|--------------------|----------------------------------|-------------------------|---------------|-------|-------------|-----------------------------|
| NANOCOM-BT-A11-0001 | Type 10 | Intel® Celeron® Processor N2930 | 2GB Onboard DDR3L | — | LVDS x 1, DDI x 1 | SATA III x 2 | Intel® I210-AT x 1 | USB 3.2 Gen 1 x 1 USB 2.0 x 7 | 2-Wire UART x 2 (Tx/Rx) | PCIe [x1] x 3 | 12V | 0°C ~ 60°C | LPC, GPIO 8-bit, I2C, SMBus |
| NANOCOM-BT-A11-0002 | Type 10 | Intel® Celeron® Processor N2807 | 2GB Onboard DDR3L | — | LVDS x 1, DDI x 1 | SATA III x 2 | Intel® I210-AT x 1 | USB 3.2 Gen 1 x 1 USB 2.0 x 7 | 2-Wire UART x 2 (Tx/Rx) | PCIe [x1] x 3 | 12V | 0°C ~ 60°C | LPC, GPIO 8-bit, I2C, SMBus |
| NANOCOM-BT-A11-0003 | Type 10 | Intel Atom® Processor E3845 | 2GB Onboard DDR3L | — | LVDS x 1, DDI x 1 | SATA II x 2, 8GB eMMC | Intel® I210-AT x 1 | USB 3.2 Gen 1 x 1 USB 2.0 x 7 | 2-Wire UART x 2 (Tx/Rx) | PCIe [x1] x 3 | 12V | 0°C ~ 60°C | LPC, GPIO 8-bit, I2C, SMBus |
| NANOCOM-BT-A11-0006 | Type 10 | Intel Atom® Processor E3825 | 2GB Onboard DDR3L | — | LVDS x 1, DDI x 1 | SATA II x 2, 8GB eMMC | Intel® I210-AT x 1 | USB 3.2 Gen 1 x 1 USB 2.0 x 7 | 2-Wire UART x 2 (Tx/Rx) | PCIe [x1] x 3 | 12V | 0°C ~ 60°C | LPC, GPIO 8-bit, I2C, SMBus |

Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

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