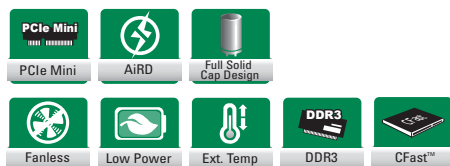


CAPA830

3.5" Embedded SBC with Intel® Atom™ D2550/N2600/N2800, Intel® NM10, LVDS/HDMI/VGA, Dual LANs, Audio and ZIO

Features

- Intel® Atom™ processor D2550 (1.86 GHz)/N2800 (1.86 GHz)/N2600 (1.6 GHz)
- 1 DDR3-800/1066 SO-DIMM, up to 4GB
- 6 USB 2.0 ports
- 2 COM ports
- ZIO connector
- PCI Express Mini Card V1.2 with mSATA supported



Core System

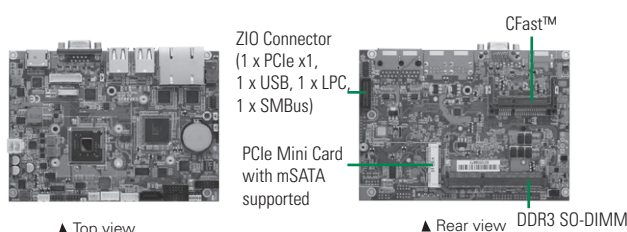
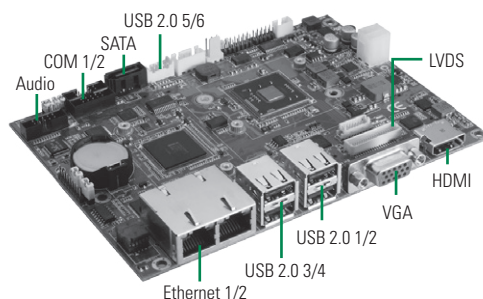
| | |
|-----------------------|--|
| CPU | Intel® Atom™ processor D2550 1.86 GHz/N2800 1.86 GHz/N2600 1.6 GHz dual core onboard |
| System Memory | 1 x 204-pin DDR3-800/1066 SO-DIMM, up to 4GB (N2600 supports DDR3-800, up to 2GB) |
| Chipset | Intel® NM10 |
| BIOS | AMI UEFI BIOS |
| SSD | 1 x CFast™ |
| Watchdog Timer | 255 levels, 1~255 sec. |
| Expansion Interface | 1 x PCI Express Mini Card V1.2 with mSATA 1 x USB, 1 x PCIe x1, 1 x LPC, 1 x SMBus through a ZIO connector |
| Battery | Lithium 3V/220mAH |
| Power Input | 2 x 2-pin connector +12V DC-in only AT Auto Power ON function supported |
| Power Requirements | Intel® Atom™ N2600 @ 1.6 GHz, 1GB DDR3 Max. RMS: +12V @ 1.077A Intel® Atom™ N2800 @ 1.86 GHz, 1GB DDR3 Max. RMS: +12V @ 1.156A Intel® Atom™ D2550 @ 1.86 GHz, 1GB DDR3 Max. RMS: +12V @ 1.44A |
| Size | 146 x 104 mm |
| Board Thickness | 1.6 mm |
| Operating Temperature | -20°C ~ +70°C (-4°F ~ +158°F), operation |
| Operation Humidity | 10% ~ 95% relative humidity, non-condensing |

I/O

| | |
|---------------------|--|
| MIO | 1 x RS-232/422/485 (+5V/+12V powered) 1 x RS-232 (+5V/+12V powered) |
| SATA | 1 x SATA-300 |
| Hardware Monitoring | Detect CPU/system temperature, voltage and fan speed |
| Ethernet | 2 ports as 10/100/1000 Mbps support Wake-on-LAN, PXE Boot ROM with Intel® 82583V |
| Audio | HD Codec audio as MIC-in/Line-in/Line-out with Realtek ALC662 |
| USB | 6 x USB 2.0 |
| SMBus | System Management Bus for Advanced monitoring/control |
| Digital I/O | 8 channels IN/OUT programmable |
| TPM | ST ST33TPM12LPC with TPM 1.2 compliant |

Display

| | |
|-------------------|---|
| Chipset | Intel® GMA 3650 graphics core for D2550/ N2800 Intel® GMA 3600 graphics core for N2600 |
| Memory Size | Share system memory |
| Display Interface | 1 x VGA 1 x HDMI 1 x LVDS; 18/24-bit single/dual channel |



Packing List

Standard

Quick installation guide, user's manual/utility CD, cable

Cable

| Part Number | Description | Qty |
|--------------|--|-----|
| 59382620000E | 1 x COM w/ bracket, P=2.0 mm, L=300 mm | 1 |
| 59384500100E | Audio cable w/ bracket, P=2.0 mm, L=450 mm | 1 |
| 59382631000E | 2 x USB 2.0 wafer cable w/ bracket 180 mm | 1 |

Ordering Information

Standard

| | |
|--|--|
| CAPA830VHGGA-D2550 (P/N: E38E830103) | 3.5" Embedded SBC with Intel® Atom™ processor D2550 1.86 GHz, Intel® NM10 chipset, VGA/LVDS/HDMI, 2 GbE LANs, audio and heatsink fan |
| CAPA830VHGGA-N2800 (P/N: E38E830102) | 3.5" Embedded SBC with Intel® Atom™ processor N2800 1.86 GHz, Intel® NM10 chipset, VGA/LVDS/HDMI, 2 GbE LANs and audio |
| CAPA830VHGGA-N2600 (P/N: E38E830101) | 3.5" Embedded SBC with Intel® Atom™ processor N2600 1.6 GHz, Intel® NM10 chipset, VGA/LVDS/HDMI, 2 GbE LANs and audio |
| CAPA830VHGGA-D2550-ZIO (P/N: E38E830106) | 3.5" Embedded SBC with Intel® Atom™ processor D2550 1.86 GHz, Intel® NM10 chipset, VGA/LVDS/HDMI, 2 GbE LANs, audio, heatsinkfan and ZIO connector |
| CAPA830VHGGA-N2800-ZIO (P/N: E38E830105) | 3.5" Embedded SBC with Intel® Atom™ processor N2800 1.86 GHz, Intel® NM10 chipset, VGA/LVDS/HDMI, 2 GbE LANs, audio and ZIO connector |
| CAPA830VHGGA-N2600-ZIO (P/N: E38E830104) | 3.5" Embedded SBC with Intel® Atom™ processor N2600 1.6 GHz, Intel® NM10 chipset, VGA/LVDS/HDMI, 2 GbE LANs, audio and ZIO connector |
| CAPA830VHGGA-N2600 w/ET | 3.5" Embedded SBC with Intel® Atom™ processor N2600 1.6 GHz, Intel® NM10 chipset, VGA/LVDS/HDMI, 2 GbE LANs, audio and -40°C to +85°C |

Optional

| | |
|---------------------------|---|
| AX93262 (P/N: E393262100) | ZIO module w/ four COM ports and one PCIe Mini Card |
| AX93285 (P/N: E393285100) | ZIO module w/ two COM ports and 32-bit programmable DIO |
| AX93291 (P/N: E393291100) | ZIO module w/ two COM ports and two Gigabit Ethernet |

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[MI958F-16C](#) [S2600WFT](#) [S2600STB](#) [BBS2600BPS](#) [BLKNUC7I3DNHNC1978015](#) [DEV-17745](#) [BEAGLEBOARD POCKET](#) [BPI-M5](#)
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