

CAPA842

3.5" Embedded SBC with Intel® Celeron® Processor J1900/N2807, LVDS/VGA/HDMI, Dual LANs and Audio

Features

- Intel® Celeron® processor J1900/N2807 (Bay Trail SoC)
- 1 DDR3L-1333 SO-DIMM, up to 8GB
- 4 USB 2.0 ports
- 4 COM ports
- 2 PCI Express Mini Card and 1 SIM slot
- 2 Gigabit Ethernet ports
- LVDS/VGA/HDMI with dual-view supported

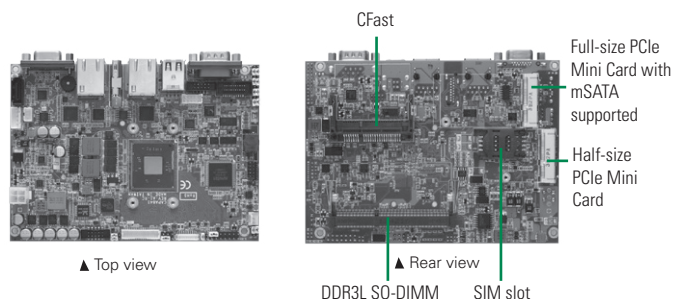
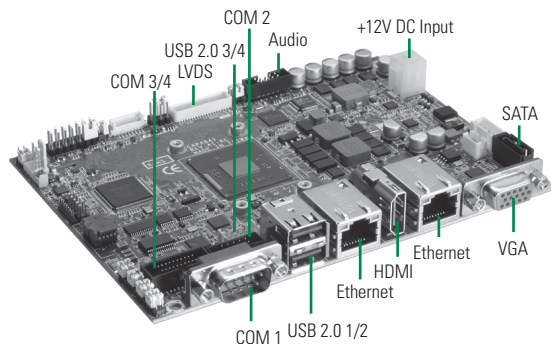


Core System

| | |
|---------------------|---|
| CPU | Intel® Celeron® processor J1900 quad core or N2807 dual core onboard (Bay Trail) |
| System Memory | 1 x 204-pin DDR3L-1333 SO-DIMM, up to 8GB |
| Chipset | SoC Integrated |
| BIOS | AMI |
| SSD | 1 x CFast™ |
| Watchdog Timer | 255 levels, 1 ~ 255 sec. |
| Expansion Interface | 1 x Full-size PCI Express Mini Card with mSATA 1 x Half-size PCI Express Mini Card 1 x SIM slot |
| Battery Lithium | Lithium 3V/220mAH |
| Power Input | 2 x 2-pin connector +12V DC-in only AT Auto Power On function supported |
| Power Requirements | Intel® Celeron® J1900 @ 2 GHz, 8GB DDR3L Max. RMS. +12V @ 1.41A Intel® Celeron® N2807 @ 1.58 GHz, 8GB DDR3L Max. RMS. +12V @ 0.64A |
| Size | 146 x 104 mm |
| Board Thickness | 1.6 mm |
| Temperature | -20°C ~ +70°C (-4°F ~ +158°F), operation |
| Relative Humidity | 10% ~ 95% relative humidity, non-condensing |

I/O

| | |
|---------------------|--|
| MIO | 2 x RS-232/422/485 (+5V/+12V powered) 2 x RS-232 (+5V/+12V powered) |
| SATA | 1 x SATA-300 |
| Hardware Monitoring | Detect CPU/system temperature and voltage |
| Ethernet | 2 x 10/100/1000 Mbps supports Wake-on-LAN, PXE Boot ROM with Intel® i211AT |
| Audio | HD Codec audio as MIC-in/Line-in/Line-out/Speaker-out with Realtek ALC662 |
| USB | 4 x USB 2.0 |
| SMBus | System Management Bus for advanced monitoring/control |
| Digital I/O | 8 channels IN/OUT programmed |
| TPM | ST ST33TPM12LPC with TPM 1.2 compliant |



Display

| | |
|-------------------|--|
| Chipset | Intel® HD Graphics |
| Memory Size | Share System Memory |
| Display Interface | 1 x VGA 1 x LVDS; 18/24-bit single/dual channel 1 x HDMI |

Packing List

Standard

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

Cable

| Part Number | Description | Qty |
|--------------|--|-----|
| 5938262000E | 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 |

Optional

| Part Number | Description |
|--------------|--------------|
| 5078E841200E | Heatspreader |

Ordering Information

Standard

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|-------------------------------------|--|
| CAPA842VHGA-J1900 (P/N: E38E842102) | 3.5" Embedded SBC with Intel® Celeron® processor J1900 (2 ~ 2.42 GHz, 2 MB Cache, 10 W), VGA/LVDS/HDMI, 2 GbE LANs and audio |
| CAPA842VHGA-N2807 (P/N: E38E842100) | 3.5" Embedded SBC with Intel® Celeron® processor N2807 (1.58 ~ 2.16 GHz, 1 MB Cache, 4.3 W), VGA/LVDS/HDMI, 2 GbE LANs and audio |