

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

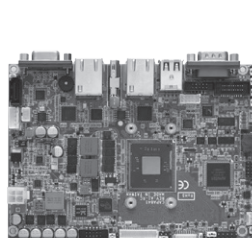
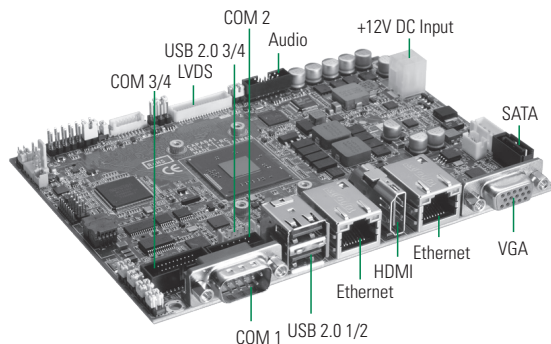


Core System

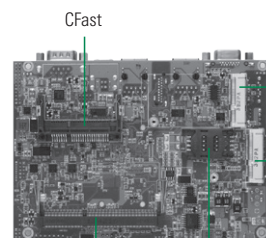
CPU	Intel® Celeron® processor J1900 quad core or N2807 dual core onboard (Bay Trail)
System Memory	1 x 204-pin DDR3L-1333 SO-DIMM, up to 8GB
Chipset	SoC Integrated
BIOS	AMI
SSD	1 x CFast™
Watchdog Timer	255 levels, 1 to 255 sec.
Expansion Interface	1 x Full-size PCI Express Mini Card with mSATA 1 x Half-size 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 to +70°C (-4°F to +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 ALC888S
USB	4 x USB 2.0
SMBus	System Management Bus for advanced monitoring/control
Digital I/O	8 channels in/out programmed
TPM	ST ST33ZP24AR28PVSP with TPM 1.2 compliant or Infineon SLB9665 with TPM2.0 compliant (optional)



▲ Top view



▲ Rear view
DDR3L SO-DIMM SIM slot

Full-size PCIe Mini Card with mSATA supported
Half-size PCIe Mini Card

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, and 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
594E8422800E	2 x USB 2.0 wafer cable w/ bracket, 180 mm	1

Ordering Information

Standard

CAPA842VHGG-A-J1900 (P/N: E38E842102)	3.5" Embedded SBC with Intel® Celeron® processor J1900 (2 - 2.42 GHz, 2 MB Cache, 10 W), HDMI, VGA, LVDS, 2 GbE LAN, audio and heatsink
CAPA842VHGG-A-N2807 (P/N: E38E842100)	3.5" Embedded SBC with Intel® Celeron® processor N2807 (1.58 - 2.16 GHz, 1 MB Cache, 4.3 W), HDMI, VGA, LVDS, 2 GbE LAN, audio and heatsink

Optional

CAPA842VHGG-A-J1900 w/heatspreader (P/N: E38E842120)	3.5" Embedded SBC with Intel® Celeron® processor J1900 (2 - 2.42 GHz, 2MB Cache, 10W), HDMI, VGA, LVDS, 2 GbE LAN, audio and heatspreader without heatsink
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Mouser Electronics

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