

CAPA831

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

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
- 4 COM ports
- DisplayPort, LVDS, and VGA with dual-view supported
- PCI Express Mini Card with mSATA supported



Core System

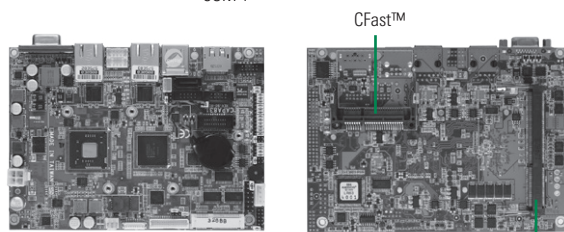
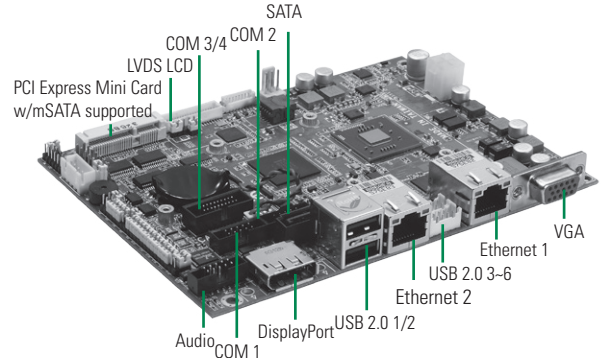
CPU	Intel® Atom™ processor D2550 1.86 GHz, N2800 1.86 GHz, N2600 1.6 GHz dual core onboard
System Memory	1 x 204-pin DDR3-800/1066 SO-DIMM, up to 4GB (N2600 supports DDR-800, up to 2GB)
Chipset	Intel® NM10
BIOS	AMI UEFI BIOS
SSD	1 x CFast™
Watchdog Timer	255 levels, 1~255 sec.
Expansion Interface	1 x PCI Express Mini Card V1.2 with mSATA
Battery	Lithium 3V/220mAh
Power Input	2 x 2-pin connectors +12V DC-in only AT Auto Power On function supported
Power Requirement	Intel® Atom™ D2550 @ 1.86 GHz, 1GB DDR3 Max. RMS: +12V @ 1.48A
Size	146 x 104 mm
Board Thickness	1.6 mm
Operating Temperature	Standard: 0°C ~ +60°C (32°F ~ 140°F) Optional: -20°C ~ +70°C (-4°F ~ +158°F)
Operation Humidity	10% ~ 95% relative humidity, non-condensing

I/O

MIO	2 x RS-232/422/485 (COM 1/2 with +5V/+12V powered) 2 x RS-232 (COM 3/4 with +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/Speaker-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 33TPM12LPC 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 DisplayPort 1 x LVDS; 18/24-bit single/dual channel



▲ Top view

▲ Rear view

DDR3 SO-DIMM

Packing List

Standard

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

Cable

Part Number	Description	Qty
5938262000E	1 x COM w/ bracket, P=2.0mm, L=300 mm	1
59384500100E	Audio cable w/ bracket, P=2,450 mm	1
59382631000E	2 x USB 2.0 wafer cable w/ bracket, 180 mm	1

Optional

5938000300E	2 x COM w/ bracket, P=1.27 x 2.54, L=300 mm	
59070213000E	DisplayPort to VGA cable, L=100 mm	
59040131000E	DisplayPort to DVI cable, L=220 mm	
59050203000E	DisplayPort to HDMI cable, L=185 mm	
59091501000E	DisplayPort to DisplayPort cable, L=1500 mm	

Ordering Information

Standard

CAPA831VPGGA-N2800 (fanless) (P/N: E38E831103)	3.5" Embedded SBC with Intel® Atom™ N2800 1.86 GHz, VGA/DisplayPort/ LVDS, 2 GbE LANs and audio
CAPA831VPGGA-N2600 (fanless) (P/N: E38E831105)	3.5" Embedded SBC with Intel® Atom™ N2600 1.6 GHz, VGA/DisplayPort/ LVDS, 2 GbE LANs and audio
CAPA831VPGGA-D2550 (P/N: E38E831106)	3.5" Embedded SBC with Intel® Atom™ D2550 1.86 GHz, VGA/DisplayPort/ LVDS, 2 GbE LANs, audio and heatsink fan
CAPA831VPGGA-N2800 w/ WT (fanless)	3.5" Embedded SBC with Intel® Atom™ N2800 1.86 GHz, VGA/DisplayPort/LVDS, 2 GbE LANs, audio and WT (-20°C ~ +70°C)
CAPA831VPGGA-D2550 w/ WT (fanless) (P/N: E38E831108)	3.5" Embedded SBC with Intel® Atom™ D2550 1.86 GHz, VGA/DisplayPort/LVDS, 2 GbE LANs, audio and WT (-20°C ~ +70°C)



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