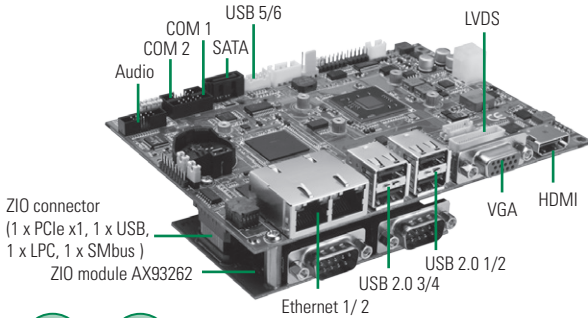


# CAPA830

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



Full Solid  
Cap Design



AIRD



Supports  
Intel Atom



Fanless



Low Power



Extended  
Temperature



DDR3



CFast™



PCIe Mini

## System

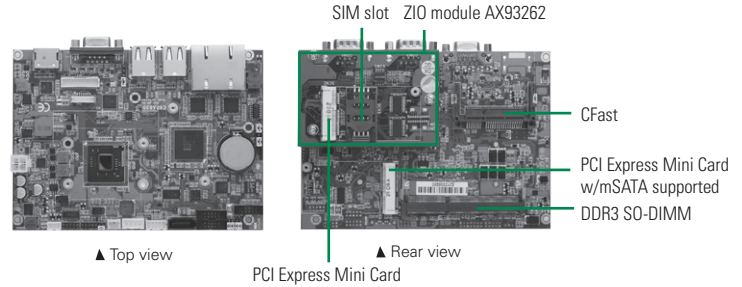
CPU	Intel® Atom™ processor D2550 1.86 GHz/ N2800 1.86 GHz/ N2600 1.6 GHz dual core onboard
System Memory	1 x 204-pin SO-DIMM supports DDR3-800/1066 max. up to 4 GB (N2600 supports DDR3-800 max. up to 2 GB)
Chipset	Intel® NM10
BIOS	AMI UEFI BIOS
SSD	1 x CFast™
Watchdog Timer	255 levels, 1~255 sec.
Expansion Interface	1 x PCI Express Mini Card V1.2 w/mSATA supported 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, 1 GB DDR3 Max. RMS: +12V @ 1.077A Intel® Atom™ N2800 @ 1.86 GHz, 1 GB DDR3 Max. RMS: +12V @ 1.156A Intel® Atom™ D2550 @ 1.86 GHz, 1 GB 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	Refer to ordering information
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, RPL/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

## Features

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



▲ Top view

▲ Rear view

## 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=2.0mm, L=300 mm	1
593845001000E	Audio cable w/ bracket P=2,450 mm	1
59382631000E	2 x USB 2.0 wafer cable w/ bracket 180 mm	1

## Ordering Information

### Standard

Models	Fanless	PCI Express Mini Card	SIM Slot	RS-232/422/485	RS-232
CAPA830VHGGA-D2550 (P/N: E38E830103)	Heatsink fan	1	N/A	1	1
CAPA830VHGGA-N2800 (P/N: E38E830102)	Yes	1	N/A	1	1
CAPA830VHGGA-N2600 (P/N: E38E830101)	Yes	1	N/A	1	1
CAPA830VHGGA-D2550-ZIO (P/N: E38E830106)	Heatsink fan	2	1	3	3
CAPA830VHGGA-N2800-ZIO (P/N: E38E830105)	Yes	2	1	3	3
CAPA830VHGGA-N2600-ZIO (P/N: E38E830104)	Yes	2	1	3	3

### Optional/ MOQ

CAPA830VHGGA-N2600 w/ET	3.5" SBC with Intel® Atom™ N2600 1.6GHz, VGA/HDMI/LVDS, 2 10/100/1000 Ethernet, audio and -40°C ~ +85°C
CAPA830VHGGA-N2600-ZIO w/ET	3.5" SBC with Intel® Atom™ N2600 1.6GHz, VGA/HDMI/LVDS, 2 10/100/1000 Ethernet, audio, ZIO module AX93262 and -40°C ~ +85°C

# Mouser Electronics

Authorized Distributor

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[CAPA830VHGGGA-N2800](#)