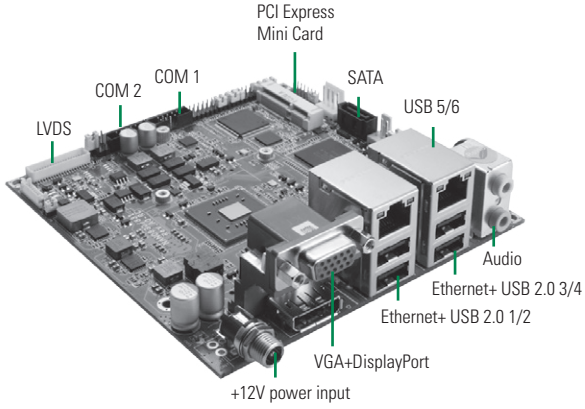
NANO830

Intel® Atom™ D2550 Nano-ITX SBC with Intel® NM10, LVDS/DisplayPort/VGA, Dual LANs and Audio



Supports Intel Atom inside | Low Power | DDR3 | CFast™ | PCIe Mini | Full Solid Cap Design | AiRD

System

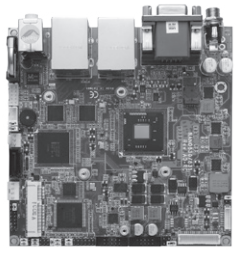
CPU	Intel® Atom™ processor D2550 1.86 GHz dual core onboard
System Memory	1 x 204-pin SO-DIMM supports DDR3-1066 max. up to 4 GB
Chipset	Intel® NM10
BIOS	AMI UEFI BIOS
SSD	1 x CFast™
Watchdog Timer	255 levels, 1~255 sec.
Expansion Interface	1 x PCI Express Mini Card V1.2
Battery	Lithium 3V/220mAH
Power Input	DC power jack connector +12V DC-in only AT Auto Power ON function supported
Power Requirement	Intel® Atom™ D2550 @1.86 GHz, 1 GB DDR3 Max. RMS: +12V @ 1.25A
Size	120 x 120 mm
Board Thickness	1.6 mm
OperatingTemperature	-20° ~ +70°C (-4°F ~ +158°F), operation
Operation Humidity	10% ~ 95% relative humidity, non-condensing

I/O

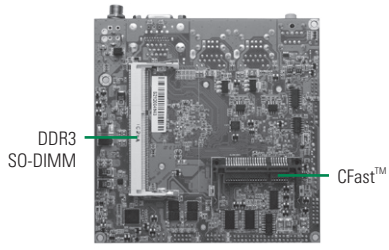
MIO	1 x RS-232/422/485 (COM 1); with +5V/+12V powered 1 x RS-232 (COM 2); with +5V/+12V powered
SATA	1 x SATA-300
Hardware Monitoring	Detect CPU/system temperature, voltage and fan speed
Ethernet	2 ports as 10/100/1000 Mbps support Wake-on-LAN, PXE Boot ROM with Intel® 82583V
Audio	HD Codec audio as MIC-in/Line-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	Infineon SLB9635 with TPM 1.2 compliant

Features

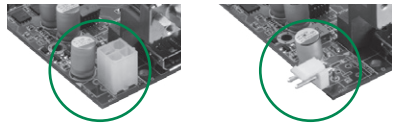
- Intel® Atom™ processor D2550 (1.86 GHz)
- 1 DDR3 SO-DIMM supports up to 4 GB memory capacity
- 6 USB 2.0 ports
- 2 COM ports
- Supports CFast™, PCI Express Mini Card
- Display: LVDS/DisplayPort/VGA



▲ Top view



▲ Rear view



▲ Internal power connector (Optional)

Display

Chipset	Intel® GMA 3650 graphics core
Memory Size	Share system memory
Display Interface	1 x VGA 1 x DisplayPort 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 cable w/ bracket P=2.0 mm, L=300 mm	1

Optional	
59382631000E	2 x USB 2.0 wafer cable w/ bracket 180 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	
NANO830VPGGA-D2550 (heatsink fan included) (P/N: E38K830100)	Nano-ITX SBC with Intel® Atom™ processor D2550 1.86 GHz, VGA/DisplayPort/LVDS, 2 GbE LAN, 2 COM, 6 USB, CFast™ and audio

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