Single board computer
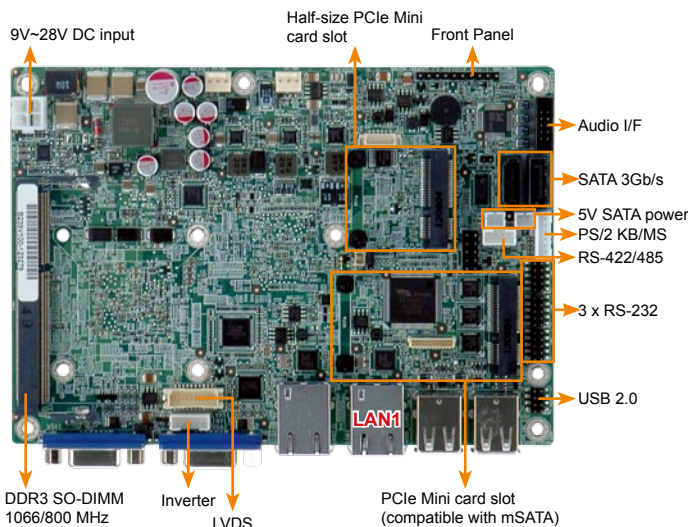## Embedded Board
www.ieiworld.com

epic **NANO-CV-** D25502 N26002

EPIC SBC with Intel® Atom™ D2550 1.86GHz/ N2600 1.6GHz, DDR3, Dual VGA/LVDS, Dual GbE, USB 2.0, Dual PCIe Mini, SATA 3Gb/s, mSATA and Audio
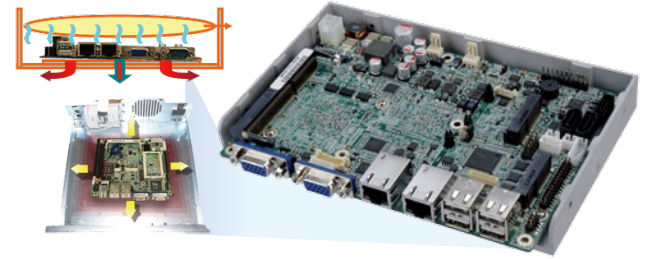
9V~28V DC input
Half-size PCIe Mini card slot
Front Panel
Audio I/F
SATA 3Gb/s
5V SATA power
PS/2 KB/MS
RS-422/485
3 x RS-232
USB 2.0
LAN1
DDR3 SO-DIMM 1066/800 MHz
Inverter
LVDS
PCIe Mini card slot (compatible with mSATA)

The innovation of thermal solution for EPIC

NANO-CV-D25502/N26002 is the first IEI EPIC board to be implemented enclosure heatsink for easy fanless assembly solution.

Most of the heat will be spread to by whole system surface

1st VGA
2nd VGA
Dual GbE
4 x USB 2.0

One Key Recovery — IEI symantec.
DDR3 1066
SERIAL ATA SATA 3Gb/s
Hi-Speed USB 2.0
Gigabit Ethernet PCIe GbE
Dual Display

Features

1. EPIC form fator with Intel® Atom™ dual core D2550 1.86GHz/N2600 1.6GHz proccessor supporting DDR3 memory
2. Dual display support by dual VGA and 18/24-bit single channel LVDS
3. 1066/800HMz DDR3 SO-DIMM supported up to 4GB
4. Thermal design for easy assembly by enclosure heatsink
5. Wide power voltage range by 9V ~ 28V support
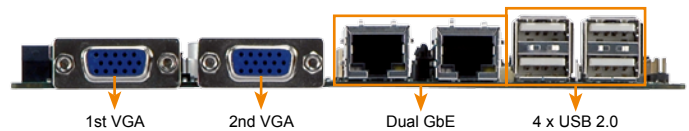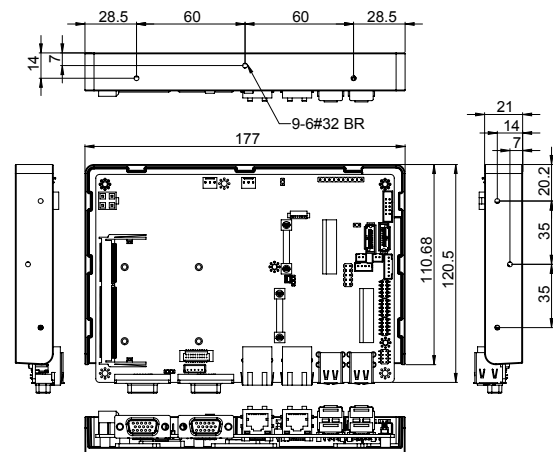6. IEI One Key Recovery solution allows you to create rapid OS backup and recovery

Specifications

◆ CPU
Intel® dual core Atom™ D2550 1.86GHz processor
Intel® dual core Atom™ N2600 1.6GHz processor
Intel® dual core Atom™ N2800 1.86GHz processor (optional)

◆ Chipset
Intel® NM10

◆ BIOS
UEFI BIOS

◆ Memory
1 x 1066MHz DDR3 SO-DIMM supporting up to 4GB (for D2550 and N2800)
1 x 800MHz DDR3 SO-DIMM supporting up to 2GB (for N2600)

◆ Graphics Engine
GMA 3650 at 640MHz graphics core speed (for N2550 and N2800)
GMA 3600 at 400MHz graphics core speed (for N2600)

◆ Display Output
1st VGA integrated in the CPU (up to 1920 x 1200 @60Hz)
2nd VGA driver via the NXP PTN3392 (up to 1920 x 1200 @60Hz)
LVDS1 integrated in the CPU
Single-channel 24-bit LVDS by D2550, resolution support up to 1440x900 @60Hz
Single-channel 18-bit LVDS by N2600 and N2800, resolution support up to 1366x768 @60Hz

◆ Ethernet
Dual PCIe LAN controller by Realtek RTL8111E with ASF 2.0 support

◆ Super I/O
Fintek F81866

◆ I/O interface
3 x RS-232
1 x RS-422/485
1 x 6-pin wafer for PS/2 KB/MS
6 x USB 2.0 (4 on rear, 2 by pin header)
2 x SATA 3Gb/s with SATA 5V power connector (SATA1 and mSATA shares SATA signal)

◆ Audio
Realtek ALC662 HD codec (Line-in, Line-out, Mic)

◆ Expansions
1 x full-size PCIe Mini card slot with mSATA support (SATA1 and mSATA shares SATA signal)
1 x half-size PCIe Mini card slot

◆ Watchdog Timer
Software programmable supports 1~255 sec. system reset

◆ Digital I/O
8-bit programmable I/O

◆ Fan Connector
1 x 4-pin CPU fan connector
1 x 3-pin system fan connector

◆ Power supply
9 ~ 28V, AT/ATX support

◆ Power Consumption
12V@1.59A (Intel® dual core D2550 CPU with 1333MHz 4GB DDR3 memory)
12V@1.23A (Intel® dual core N2600 CPU with 1333MHz 4GB DDR3 memory)

◆ Operating Temperature
-20°C ~ 60°C with free air, -20°C ~ 70°C with force air for D2550 processor
-20°C ~ 70°C with free air, -20°C ~ 75°C with force air for N2600/N2800 processor

◆ Operating Humidity
5% ~ 95%, non-condensing

◆ Dimensions
115 mm x 165 mm

◆ Weight
GW: 850g/NW: 350g

Dimensions (Unit: mm)

28.5 / 60 / 60 / 28.5
14 / 7
9-6#32 BR
177
110.68
120.5
21
14
7
20.2
35
35

Packing List

1 x NANO-CV-D25502/N26002 single board computer	
1 x SATA with 5V output cable kit (P/N: 32801-000201-100-RS)	
1 x Audio cable (P/N: 32000-072100-RS)	1 x One Key Recovery CD
1 x Power cable (P/N: 32100-087100-RS)	1 x Mini jumper pack
1 x RS-232 cable (P/N: 32205-002700-100-RS)	1 x Utility CD
1 x Enclosure heatsink	1 x QIG (Quick Installation Guide)

Ordering Information

Part No.	Description
NANO-CV-D25502-R10	EPIC SBC with Intel® Atom™ D2550 1.86GHz, DDR3, dual VGA/LVDS, dual GbE, USB 2.0, dual PCIe Mini, SATA 3Gb/s, mSATA and Audio
NANO-CV-N26002-R10	EPIC SBC with Intel® Atom™ N2600 1.6GHz, DDR3, dual VGA/LVDS, dual GbE, USB 2.0, dual PCIe Mini, SATA 3Gb/s, mSATA and Audio
NANO-CV-N28002-R10	EPIC SBC with Intel® Atom™ N2800 1.86GHz, DDR3, dual VGA/LVDS, dual GbE, USB 2.0, dual PCIe Mini, SATA 3Gb/s, mSATA and Audio (by project support, MOQ 100pcs / lot)
32000-070301-RS	Dual-port USB cable
32205-002700-100-RS	RS-232 cable
32205-003800-100-RS	RS-422/485 cable, 200mm
32000-023800-RS	PS/2 KB/MS Y cable