epic NANO-CV-D25501 N26001
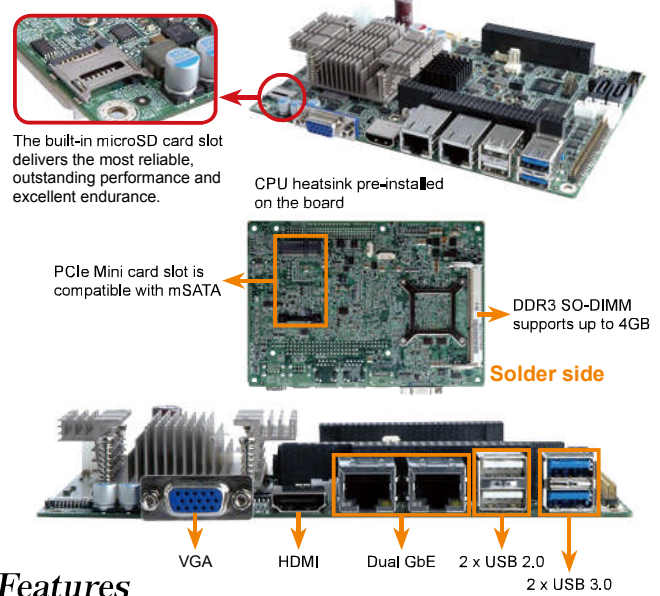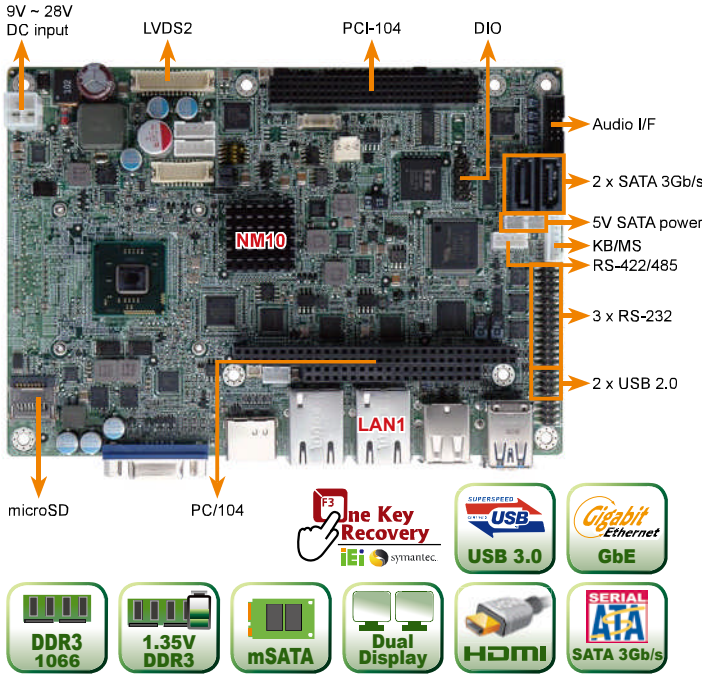
EPIC SBC with Intel® D2550/N2600, DDR3, VGA/HDMI/Dual LVDS, Dual GbE, USB 3.0, mSATA, S

9V ~ 28V DC input · LVDS2 · PCI-104 · DIO · Audio I/F · 2 x SATA 3Gb/s · 5V SATA power · KB/MS · RS-422/485 · 3 x RS-232 · 2 x USB 2.0 · NM10 · LAN1 · microSD · PC/104

One Key Recovery · iEi symantec · SUPERSPEED USB 3.0 · Gigabit Ethernet GbE

DDR3 1066 · 1.35V DDR3 · mSATA · Dual Display · HDMI · SERIAL ATA SATA 3Gb/s

The built-in microSD card slot delivers the most reliable, outstanding performance and excellent endurance.

CPU heatsink pre-installed on the board

PCIe Mini card slot is compatible with mSATA

DDR3 SO-DIMM supports up to 4GB

Solder side

VGA · HDMI · Dual GbE · 2 x USB 2.0 · 2 x USB 3.0
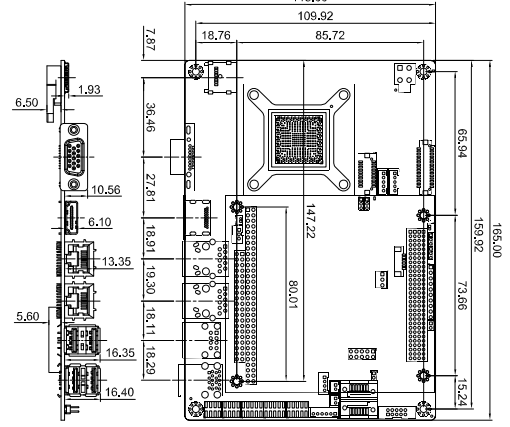
Specifications

- 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
  GMA 3650 at 640MHz graphics core speed (for N2550 and N2800)
  GMA 3600 at 400MHz graphics core speed (for N2600)
- ◆ Display Output
  Dual display supported
  1 x VGA (up to 1920 x 1200 @60Hz)
  1 x HDMI (up to 1920 x 1200 @60Hz)
  LVDS1 integrated in the D2550/N2600
  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
  LVDS2 supports 24-bit dual-channel by CH7511 DP to LVDS converter, resolution support up to 1920x1200 for D2550, 1600x1200 for N2600/N2800
- ◆ Ethernet
  Dual GbE by Realtek RTL8111E controllers
- ◆ I/O Interface
  3 x RS-232   1 x RS-422/485
  4 x USB 2.0   1 x microSD (Only for boot up to DOS)
  2 x USB 3.0   1 x 6-pin wafer for PS/2 KB/MS
  2 x SATA 3Gb/s with 5V power connector (SATA1 and mSATA shares SATA signal)
- ◆ Audio
  Realtek ALC662 HD audio codec
- ◆ Expansions
  1 x PCIe Mini card (compatible with mSATA SSD device) (SATA1 and mSATA shares SATA signal)
  1 x PC/104 slot (ISA)
  1 x PCI/104 slot (PCI)
- ◆ SMBus
  1 x 4-pin wafer connector
- ◆ TPM
  1 x 20-pin LPC pin header
- ◆ Watchdog Timer
  Software programmable supports 1~255 sec. system reset
- ◆ Programmable GPIO
  8-bit GPIO
- ◆ Fan Connector
  1 x 3-pin CPU fan connector   1 x 3-pin system fan connector
- ◆ Power supply
  Maximum input voltage range: 9V ~ 28V
  Recommended operating input voltage range: 12V ~ 24V
  One internal 4-pin (2x2) power connector
- ◆ Power Consumption
  12V@2.1A (Intel® D2550 1.86GHz CPU with 1333MHz 2GB DDR3 memory)
  12V@1.72A (Intel® N2600 1.6GHz CPU with 1333MHz 2GB 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
- ◆ Weight
  GW: 670g/NW: 350g

Features

1. EPIC form factor with Intel® D2550/N2600 dual-core proccessor supporting DDR3/DDR3L (1.35V) memory
2. Wide range 9V ~ 28V DC input design
3. Flexible VGA, dual LVDS and HDMI with dual-display support
4. Supports PC/104-Plus and PCIe Mini card slot compatible with mSATA SSD storage
5. Complete I/O with six USB, two SATA 3Gb/s, four COM and audio
6. IEI One Key Recovery solution allows you to create rapid OS backup and recovery

Dimensions *(Unit: mm)*

Packing List

1 x NANO-CV-D25501/N26001 single board computer	
1 x PS/2 KB/MS Y cable (P/N: 32000-023800-RS)	
1 x SATA with 5V output cable (P/N: 32801000201-100-RS)	
1 x Power cable (P/N: 32100-087100-RS)	1 x One Key Recovery CD
1 x Audio cable (P/N: 32000-072100-RS)	1 x Mini jumper pack
1 x USB cable (P/N: 32001-008600-100-RS)	1 x Utility CD
1 x RS-232 cable (P/N: 32205-002700-100-RS)	1 x QIG (Quick Installation Guide)

Ordering Information

Part No.	Description
NANO-CV-D25501-R10	EPIC SBC with Intel® Atom™ D2550 1.86GHz, DDR3, VGA/HDMI/dual LVDS, dual GbE, USB 3.0, mSATA, SATA 3Gb/s, Audio, RoHS
NANO-CV-N26001-R10	EPIC SBC with Intel® Atom™ N2600 1.6GHz, DDR3, VGA/HDMI/dual LVDS, dual GbE, USB 3.0, mSATA, SATA 3Gb/s, Audio, RoHS
NANO-CV-N28001-R10	EPIC SBC with Intel® Atom™ N2800 1.86GHz, DDR3, VGA/HDMI/dual LVDS, dual GbE, USB 3.0, mSATA, SATA 3Gb/s, Audio and RoHS (by project support, MOQ 100pcs / lot)
32205-002700-100-RS	RS-232 cable
32205-003800-100-RS	RS-422/485 cable, 200mm