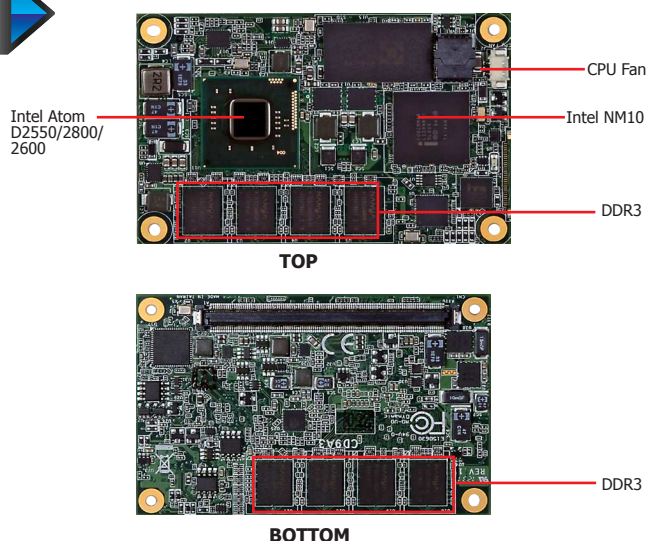


CD9A3 Series

Atom

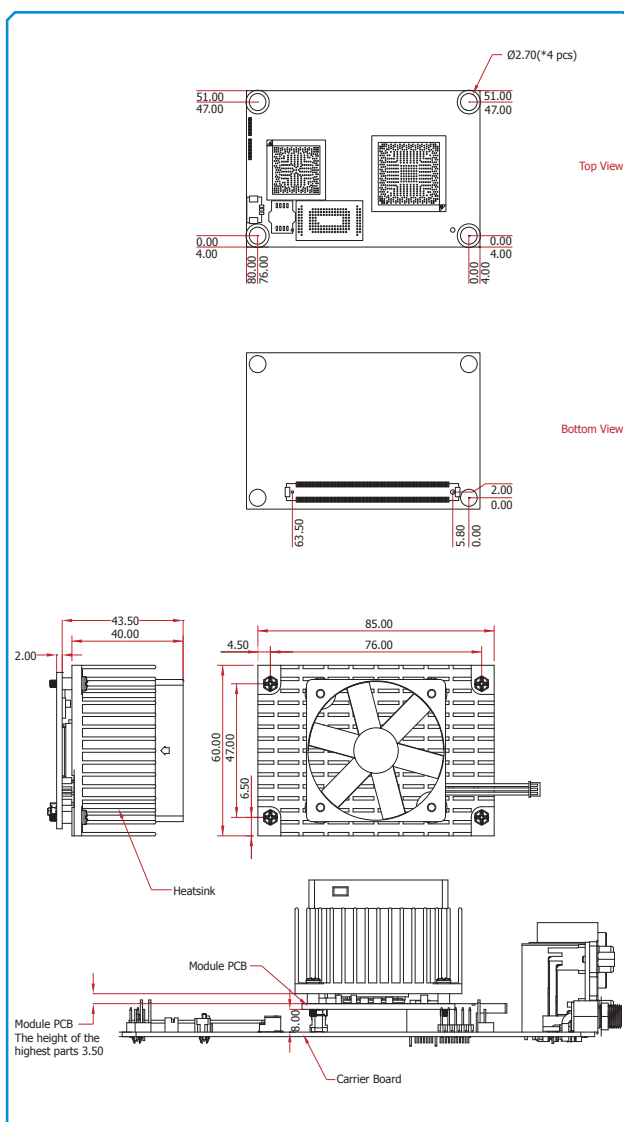


► Features

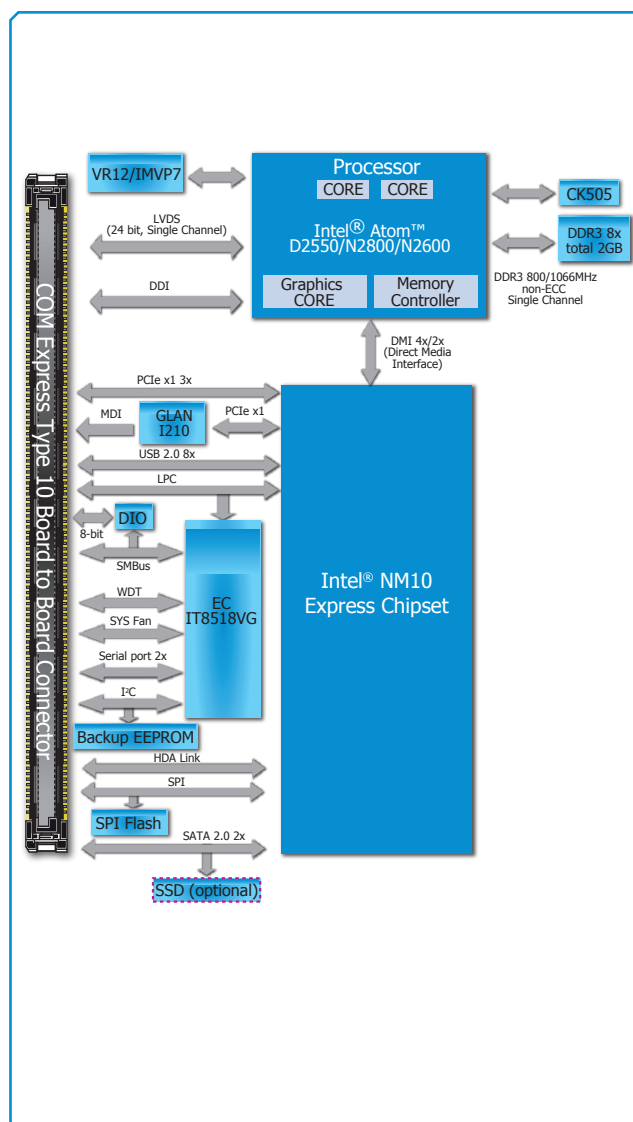
MEMORY	2GB DDR3 onboard
EXPANSION	3 PCIe x1 1 LPC, 1 SMBus, 1 I ² C, 2 serial 1 LVDS, 1 DDI 8 USB 2.0 2 SATA 2.0 8-bit DIO
LAN	1 LAN
DIMENSIONS	COM Express [®] R2.1 Mini, Type 10 84mm x 55mm (3.30" x 2.16")



► Mechanical Drawing



▶ Block Diagram



CD9A3 Series

► Specifications

PROCESSOR

- CD9A3-25B20:
 - Intel® Atom™ D2550, 1.86GHz, 2x 512K L2, 10W TDP, dual-core
 - Cooling option: heatsink with cooling fan
- CD9A3-28B20:
 - Intel® Atom™ N2800, 1.86GHz, 2x 512K L2, 6.5W TDP, dual-core
 - Cooling option: heatsink (fanless solution)
- CD9A3-26B20:
 - Intel® Atom™ N2600, 1.6GHz, 2x 512K L2, 3.5W TDP, dual-core
 - Cooling option: heatsink (fanless solution)

CHIPSET

- Intel® NM10 Express chipset

SYSTEM MEMORY

- 2GB DDR3 onboard

ONBOARD GRAPHICS FEATURES

- Intel® GMA 3650 (Intel® Atom™ D2550/N2800)
- Intel® GMA 3600 (Intel® Atom™ N2600)
- Supports LVDS and DDI interfaces
- LVDS: resolution up to 1440x900 @ 60Hz, 18/24bit (Intel® Atom™ D2550); resolution up to 1366x768 @ 60Hz, 18bit (Intel® Atom™ N2800/N2600)
- Digital Display Interface: HDMI, DVI and DP
- HDMI, DVI: resolution up to 1920x1200 @ 60Hz
- DP: resolution up to 1600x1200 @ 60Hz
- Supports Hardware H.264/AVC, MPEG-2 video decoder, VC-1, DirectX 9, 1080p decoder

ONBOARD AUDIO FEATURES

- Supports High Definition Audio interface

ONBOARD LAN FEATURES

- Intel® I210AT Gigabit Ethernet Controller
- Integrated 10/100/1000 transceiver
- Fully compliant with IEEE 802.3, IEEE 802.3u, IEEE 802.3ab
- Supports wire management

SERIAL ATA (SATA) INTERFACE

- Supports 2 Serial ATA interfaces
- SATA 2.0 with data transfer rate up to 3Gb/s
- Integrated Advanced Host Controller Interface (AHCI) controller

SSD (optional)

- 4GB/8GB/16GB/32GB
- Write: 30MB/sec (max), Read: 70MB/sec (max)
- SATA to SSD onboard

WATCHDOG TIMER

- Watchdog timeout programmable via software from 1 to 256 seconds

EXPANSION INTERFACES

- Supports 8 USB 2.0 ports
- Supports 3 PCIe x1 interfaces
- Supports LPC interface
- Supports SMBus interface
- Supports I²C interface
- Supports 2 serial interfaces (TX/RX)
- Supports 8-bit Digital I/O

DAMAGE FREE INTELLIGENCE

- Monitors CPU temperature
- Monitors CPU fan speed
- Monitors Vcore/VCC RTC/DDR3 voltages
- Watchdog timer function

BIOS

- 16Mbit SPI BIOS

OS SUPPORT

- Windows XP Professional x86 & SP3 (32-bit)
- Windows 7 Ultimate x86 & SP1 (32-bit)

TEMPERATURE

- Operating: 0°C to 60°C
- Storage: -40°C to 85°C

HUMIDITY

- 10% to 90%

POWER INPUT

- 4.75V~20V, 5VSB, VCC_RTC (ATX mode)
- 4.75V~20V, VCC_RTC (AT mode)

PCB

- Dimensions
 - COM Express® Mini
 - 84mm (3.30") x 55mm (2.16")
- Compliance
 - PICMG COM Express® R2.1, Type 10

► Ordering Information

Model Name	Part Number	Description
CD9A3-25B20	777-CD9A31-0F0G	Intel® Atom™ D2550, onboard DDR3 2GB
CD9A3-28B20	777-CD9A31-1F0G	Intel® Atom™ N2800, onboard DDR3 2GB
CD9A3-26B20	777-CD9A31-2F0G	Intel® Atom™ N2600, onboard DDR3 2GB

► Packing List

- 1 CD9A3 board
- 1 QR (Quick Reference)
- 1 DVD

► Optional Items

- COM100-B carrier board kit
- Heat sink: A71-011020-000G
- Heat sink with fan: 761-CD9030-000G