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## **CP330-NRM** Intel<sup>®</sup> OM57 microATX Board

#### PROCESSOR

- Socket G rPGA 988A for:
- Intel<sup>®</sup> Core<sup>™</sup> i7-620M (SV) Intel<sup>®</sup> Core<sup>™</sup> i5-520M (SV)
- Intel<sup>®</sup> Celeron<sup>®</sup> P4500 (SV)
  Supports IMVP6.5 up to 35W CPU

#### CHIPSET

Intel® QM57 PCH (Platform Controller Hub)

#### SYSTEM MEMORY

- Two 204-pin SODIMM sockets
- Supports DDR3 800/1066MHz (PC3-6400/PC3-8500)
- Supports dual channel memory interface
- Supports up to 8GB system memory
- DRAM device technologies: 1Gb and 2Gb DDR3 DRAM technologies are supported for x8 and x16 devices, unbuffered, non-ECC

#### **EXPANSION SLOTS**

- 1 PCI Express x16 slot 1 PCI Express x4 slot
- 2 PCI slots
- 1 CompactFlash socket

#### **ONBOARD GRAPHICS FEATURES**

- Intel<sup>®</sup> HD Graphics
- Display ports: DVI-I (Chrontel CH7318), LVDS and VGA
- LVDS: Single Channel 18/24-bit; Dual Channel 36/48-bit
- Intel® Clear Video technology
- Intel® Dynamic Video Memory Technology (Intel® DVMT) Intel® Smart 2D Display Technology (Intel® S2DDT)

#### **ONBOARD AUDIO FEATURES**

- Realtek ALC262 2-channel High Defnition Audio High performance DACs with 100dB SNR
- ADCs with 90dB SNR
- Two stereo DACs support 24-bit PCM format for stereo audio playback
- Three stereo ADCs support 20-bit PCM format for multiple input streaming
- S/PDIF audio interface

#### **ONBOARD LAN FEATURES**

- Intel 82577LM with IAMT6.0 Gigabit Ethernet Phy Realtek RTL8111C PCI Express 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

- 6 Serial ATA ports compliant with SATA 1.0a speci f cation
- SATA speed up to 3Gb/s (SATA 2.0)
- Integrated Advanced Host Controller Interface (AHCI) controller

PS/2

Mouse

PS/2 K/B

COM 2

COM 1

Supports RAID 0/1/5/10

#### **IDE INTERFACE**

- JMicron JMB368 PCI Express to PATA host controller
- DMA mode: Ultra ATA up to 100MB/s

### PIO mode: up to 16MB/s

#### **INTEL ACTIVE MANAGEMENT TECHNOLOGY (AMT)**

- Supports iAMT6.0
- Out-of-band system access Remote troubleshooting and recovery Hardware-based agent presence checking
- Proactive alerting Remote hardware and software asset tracking

#### **TRUSTED PLATFORM MODULE (TPM) - optional**

- Provides a Trusted PC for secure transactions
- Provides software license protection, enforcement and password protection

- REAR PANEL I/O PORTS 1 mini-DIN-6 PS/2 mouse port 1 mini-DIN-6 PS/2 keyboard port 0 PS000 priot
- 2 DB-9 RS232 serial ports Pins 1 and 9 of COM 2 functions as RS232 signal or power (selectable via jumper)
- DB-15 VGA port DVI-I port (DVI-D signal only) RJ45 LAN ports 2
- 4 USB 2.0/1.1 ports
  - · Mic-in, line-in and line out jacks

  - **I/O CONNECTORS**
  - 4 connectors for 8 external USB 2.0/1.1 ports 2 connectors for 2 external serial ports
  - COM 3 supports RS232/422/485 LVDS LCD panel connector

  - LCD/inverter power connector 8-bit Digital I/O connector .
  - •
  - . front audio connector for line-out and mic-in jacks
  - CD-in connector S/PDIF connector .
  - .
  - 6

  - Serial ATA connectors 34-pin FDD connector 40-pin IDE connector 24-pin ATX power connector
  - front panel connector
  - 3 fan connectors

#### BIOS

- AMI BIOS
- 64Mbit SPI BIOS

#### **ENERGY EFFICIENT DESIGN**

- ACPI v2.0 specif cation
- System Power Management Wake-On-Events include:
- Wake-On-PS/2 KB/Mouse Wake-On-USB KB/Mouse
- Wake-On-LAN
- Wake-On-Ring
- RTC timer to power-on the system
- CPU stopped clock control AC power failure recovery

#### **DAMAGE FREE INTELLIGENCE**

- Monitors CPU/system temperature and overheat alarm Monitors Vcore/12V/1.5V/1.05V/5V/3VSB voltages and failure
- alarm
- Monitors CPU/chassis/2nd fan fan speed and failure alarm Read back capability that displays temperature, voltage and fan speed
- Watchdog timer function

MicroATX form factor

244mm (9.6") x 224mm (8.82")

Realtek

LAN

USB 8-9

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Mic-in

Line-in Line-out

#### **TEMPERATURE** 0°C to 60°C

• 10% to 90%

Intel

IAN

USB 0-1

**HUMIDITY** 

PCB

**REAR PANEL I/O PORTS** 

VGA

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DVI-I

(DVI-D signal only)

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