

**EPIC SBC with AMD Geode™ GX466 CPU, VGA, LAN, Dual COM, Mini PCI Slot, CF, USB 2.0 and Audio**

# **NANO-GX2**

## **Quick Installation Guide**

**Version 1.0**

Apr. 2, 2008

### **Package List**

NANO-GX2 package includes the following items:

- 1 x NANO-GX2 single board computer
- 1 x Mini Jumper Pack
- 1 x IDE flat cable 44P/44P
- 1 x Dual ports USB cable
- 1 x Audio cable
- 1 x Utility CD
- 1 x QIG (Quick Installation Guide)



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# Specifications

- CPU
  - On board AMD Geode™ GX466(333MHz) processor
- System Chipset
  - AMD Geode™ GX466 + CS5536
- BIOS: Award BIOS
- System memory
  - On board 128MB DDR SDRAM Supported, optional 256MB
- Ethernet
  - 10/100Mbps Realtek RTL8100C Ethernet chipsets
- I/O interface
  - 1 x IDE
  - 4 x USB 2.0
  - 2 x RS-232
  - 2 x PS/2 for KB/MS
- Expansion
  - 1 x Mini PCI
- Digital I/O
  - 8-bit digital I/O, 4-bit input/ 4-bit output by 2.54 pitch pin header
- Super I/O
  - Winbond W83627EHG
- Display Interface
  - VGA Integrated in AMD Geode™ GX466
- Audio
  - Realtek ALC203 AC'97 Codec
- SSD
  - CF Type II
- WDT
  - Software programmable supports 1-255 sec. system reset
- Power supply
  - 5V only, AT/ATX function supported

- Power Consumption  
5V@ 1.86A  
(AMD Geode™ GX466 with DDR 400MHz, 256MB RAM)
- Temperature: operation: 0°C ~60°C (32°F~140°F)
- Humidity: operation: 5%~95% non-condensing
- Dimensions: 115mm x 165mm
- Weight: GW: 800g / NW: 180g

## Ordering Information

### NANO-GX2-466-R10

EPIC SBC, AMD Geode™ GX466 333MHz CPU, VGA, LAN, Dual COM, Mini PCI Slot, CF, USB 2.0, Audio with on board 128MB memory

### NANO-GX2-CE050

Windows® CE 5.0 & BSP, S/W CD, Licensed Sticker (W/O CPU board)

### NANO-GX2-XPE

Windows® XP Embedded & SLD, S/W CD, Licensed Sticker (W/O CPU board)

### 63000-UP0301E05P62L-RS

5V 30W power adapter; 90~264Vac input

## Jumpers setting and Connectors

<b>JP2 : AT/ATX Function Setting</b>	
JP2	DESCRIPTION
1-2 Open(default)*	ATX
1-2 Short	AT(auto power on)

<b>JP6 : Compact Flash Master/Slave Function Setting</b>	
JP3	DESCRIPTION
1-2 Short(default)*	Master
1-2 Open	Slave

<b>JP5 : Board ID (memory configuration)</b>		
Configuration	Pin1, Pin2	Pin3, Pin4
On Board DDR 128M	Open	Open
On Board DDR 256M	Short	Open
Reserve	Open	Short
Reserve	Short	Short

<b>PWR1 : main power input connector</b>	
PIN	DESCRIPTION
1	GND
2	GND
3	+5V

<b>FAN1 : system fan connector (2.00mm)</b>	
PIN	DESCRIPTION
1	FANSPEED
2	+5V
3	GND

<b>CN5 : ATX power button connector (Wafer 2pin 2.0mm)</b>	
PIN	DESCRIPTION
1	PWRBTN#
2	GND

<b>CN6 : reset button connector (Wafer 2pin 2.0mm)</b>	
PIN	DESCRIPTION
1	RESET#
2	GND

<b>CDIN1 : CD-IN connector (Pin-header 4pin 2.54mm)</b>	
PIN	DESCRIPTION
1	FANSPEED
2	+5V
3	GND

<b>AUDIO2 : Audio Connector (Box-header 2x5pin 2.00mm)</b>			
PIN	DESCRIPTION	PIN	DESCRIPTION
1	LINEOUT_R	2	LINEIN_R
3	GROUND	4	GROUND
5	LINEOUT_L	6	LINEIN_L
7	GROUND	8	GROUND
9	MIC1IN	10	MIC2IN

<b>LED1 : 1-2: HDD LED 3-4: POWER LED (Pin-header 2x2pin 2.54mm)</b>			
PIN	DESCRIPTION	PIN	DESCRIPTION
1	HD_LED#	2	+5V
3	GND	4	+5V

<b>DIO1 : GPIO connector (Pin-header 2x5pin 2.54mm)</b>			
PIN	DESCRIPTION	PIN	DESCRIPTION
1	GND	2	+5V
3	GPO0	4	GPO1
5	GPO2	6	GPO3
7	GPI0	8	GPI1
9	GPI2	10	GPI3

<b>HDD1 : IDE connector (Box-header 2x22pin 2.0mm)</b>			
Pin	Description	Pin	Description
1	RESET#	2	GND
3	D7	4	D8
5	D6	6	D9
7	D5	8	D10
9	D4	10	D11
11	D3	12	D12
13	D2	14	D13
15	D1	16	D14
17	D0	18	D15
19	GND	20	NC
21	DRQ	22	GND
23	IOW#	24	GND
25	IOR#	26	GND
27	RDY	28	NC
29	ACK#	30	GND
31	INT	32	NC
33	A1	34	CABLEID
35	A0	36	A2
37	CS0#	38	CS1#
39	ASP#	40	GND
41	+5V	42	+5V
43	GND	44	NC

<b>USB1 : USB connector (Pin-header 2x4pin 2.54mm)</b>			
PIN	DESCRIPTION	PIN	DESCRIPTION
1	+5V	2	GND
3	D1-	4	D2+
5	D1+	6	D2-
7	GND	8	+5V

# Board Layout: Jumper and Connector Locations



