

**EPIC SBC with AMD Geode™ LX800 CPU, VGA, Dual LAN,
Dual COM, Mini PCI Slot, CF, USB 2.0 and Audio**

NANO-LX2

Quick Installation Guide

Version 1.0

Mar. 14, 2008

Package Contents

NANO-LX2 package includes the following items:

- 1 x NANO-LX2 Single Board Computer
- 1 x IDE flat cable 44p/44p
- 1 x Audio cable
- 1 x Dual ports USB cable
- 1 x Mini jumper pack
- 1 x Utility CD
- 1 x QIG (Quick Installation Guide)



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Specifications

- CPU:
 - On board AMD Geode™ LX800 (500MHz) Processor
- System Chipset:
 - AMD Geode™ LX800 + AMD Geode™ CS5536
- BIOS:
 - AWARD BIOS
- System memory:
 - 1 x 200-pin DDR 333/400MHz SO-DIMM socket support up to 1G
- Ethernet:
 - Dual 10/100Mbps Realtek RTL8100C Ethernet chipset
- I/O Interface:
 - 2 x RS-232
 - 1 x IDE
 - 4 x USB 2.0
 - 1 x PS/2 for KB/MS
 - 1 x CD_IN
- Expansion :
 - Mini PCI slot
- Digital I/O:
 - 8-bit digital I/O,4-bit input/ 4-bit output
- Display interface :
 - VGA integrated in AMD Geode™ LX800
- Audio:
 - Realtek ALC203 with AC'97 Codec
- SSD:
 - CF type I/II
- Watchdog timer:
 - Software programmable supports 1~255 sec. system reset

- Power Supply:
5V only, AT/ATX function supported.
- Power consumption :
5V@2.2A
(AMD Geode™ LX800 with DDR 400MHz, 512MB RAM)
- Temperature:
Operating: 0 ~ 60°C (32 ~ 140°F)
- Humidity:
Operation: 5% ~ 95% non-condensing
- Dimension:
115mm x 165mm;
- Weight:
GW: 820g; NW 200g

Ordering Information

NANO-LX2-800-R10

EPIC SBC with AMD Geode™ LX800 CPU, VGA, Dual LAN, Dual COM, Mini PCI Slot, CF, USB 2.0 and Audio

NANO-LX2-CE050

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

NANO-LX2-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 & Connector

CN1 : AT Power select jumper	
CN1	DESCRIPTION
Open	Use ATX Power
Short	Use AT Power if use ATX Power will be auto power on

JP8 : Compact Flash Master/Slave Function	
PIN	DESCRIPTION
1-2	Master
2-3	Slave

CN2: ATX power button connector	
PIN	DESCRIPTION
1	GND
2	PWRBTN#

JP2: Reset button connector	
PIN	DESCRIPTION
1	GND
2	RESET#

CDIN1: CD-IN connector	
PIN	DESCRIPTION
1	CD_L
2	CD_GND
3	CD_GND
4	CD_R

AUDIO2: Audio connector			
PIN	DESCRIPTION	PIN	DESCRIPTION
1	LINE_OUT-R	2	LINE_IN-R
3	GND	4	GND
5	LINE_OUT-L	6	LINE_IN-L
7	GND	8	NC
9	MIC-IN1	10	MIC-IN2

LED1 : POWER & HD LED			
PIN	DESCRIPTION	PIN	DESCRIPTION
1	HD_LED#	2	+5V
3	GND	4	+5V
1&2 HDD LED			
3&4 POWER LED			

DIO1: GPIO connector			
PIN	DESCRIPTION	PIN	DESCRIPTION
1	GND	2	+5V
3	GPO0	4	GPO1
5	GPO2	6	GPO3
7	GPI0	8	GPI1
9	GPI2	10	GPI3

COM1 : COM PORT DB9 connector			
PIN	DESCRIPTION	PIN	DESCRIPTION
1	DCD#	2	RXD
3	TXD	4	DTR#
5	GND	6	DSR#
7	RTS#	8	CTS#
9	RI#		

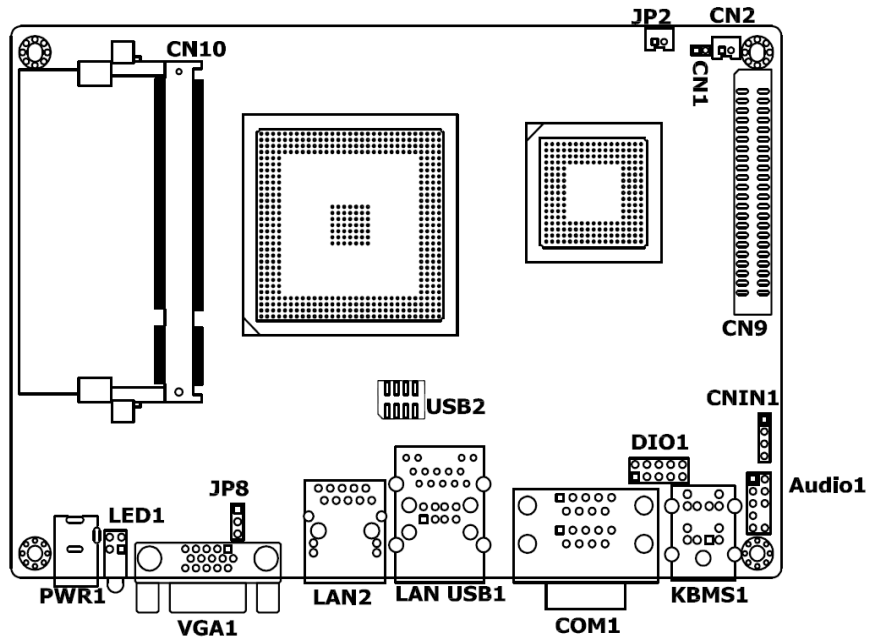
CN9 : IDE 44pin 2.0mm connector			
PIN NO.	DESCRIPTION	PIN NO.	DESCRIPTION
1	RESET#	2	GND
3	D7	4	D8
5	D6	6	D9
7	D5	8	D10
9	D4	10	D11
11	D3	12	D12
13	D2	14	D13
15	D1	16	D14
17	D0	18	D15
19	GND	20	NC
21	DRQ	22	GND
23	IOW#	24	GND
25	IOR#	26	GND
27	RDY	28	NC
29	ACK#	30	GND
31	INT	32	NC
33	A1	34	CABLEID
35	A0	36	A2
37	CS0#	38	CS1#
39	ASP#	40	GND
41	+5V	42	+5V
43	GND	44	NC

USB2: USB Connector			
PIN	DESCRIPTION	PIN	DESCRIPTION
1	+5V	2	GND
3	D1-	4	D2+
5	D1+	6	D2-
7	GND	8	+5V

BT1 : BATTERY	
PIN	DESCRIPTION
1	+3.3V
2	GND

PWR1 : POWER input connector	
PIN	DESCRIPTION
1	GND
2	GND
3	+5V

Layout



Dimension

