

Dimension

**EPIC SBC AMD® Geode LX800 500Mhz Processor,
CRT,LCD/LVDS,Dual LAN,SATA and Audio**

NANO-LX-800

Quick Installation Guide

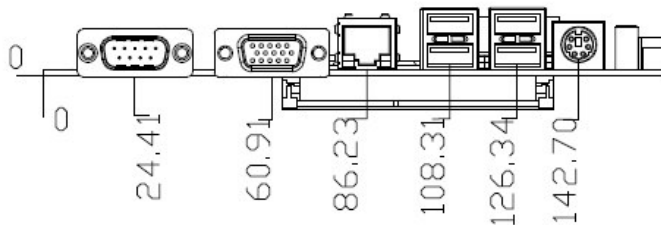
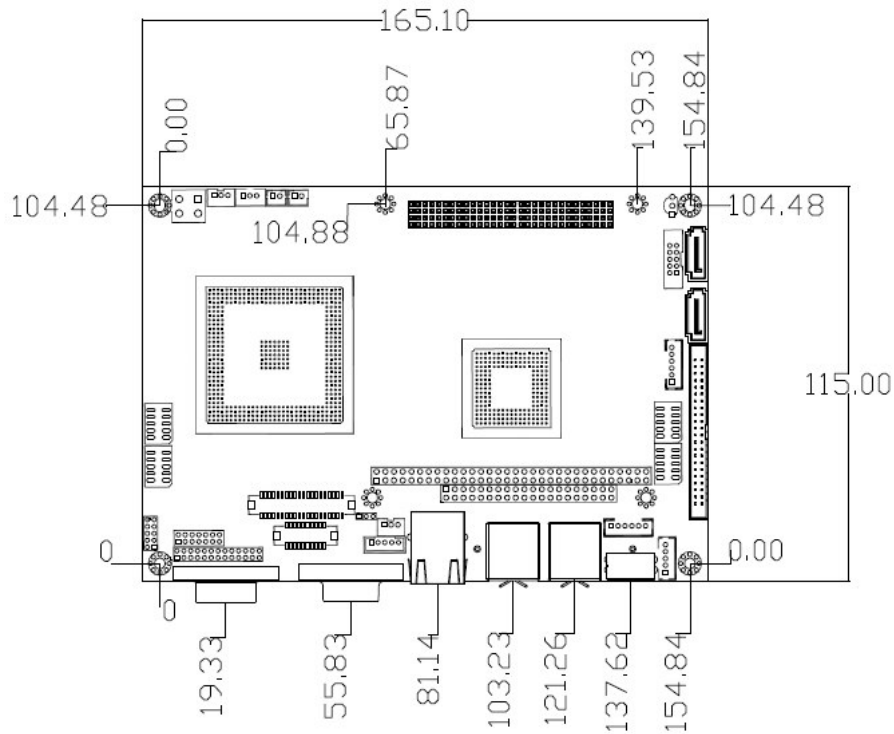
Version 1.0

Jun. 16, 2006

Package Contents

NANO-LX-800 package includes the following items:

- 1 x NANO-LX-800 Single Board Computer
- 1 x IDE Flat 44p/44p Cable (P/N:32200-000009-RS)
- 2 x SATA Cable (P/N:32000-062800-RS)
- 1 x SATA power cable (P/N:32100-088600-RS)
- 1 x Audio Cable (P/N:32000-072100-RS)
- 2 x RS232 Cable (P/N:32200-000049-RS)
- 1 x PS/2 Keyboard/Mouse Cable (P/N:32000-000138-RS)
- 1 x Mini Jumper pack
- 1 x CD-ROM Driver
- 1 x QIG

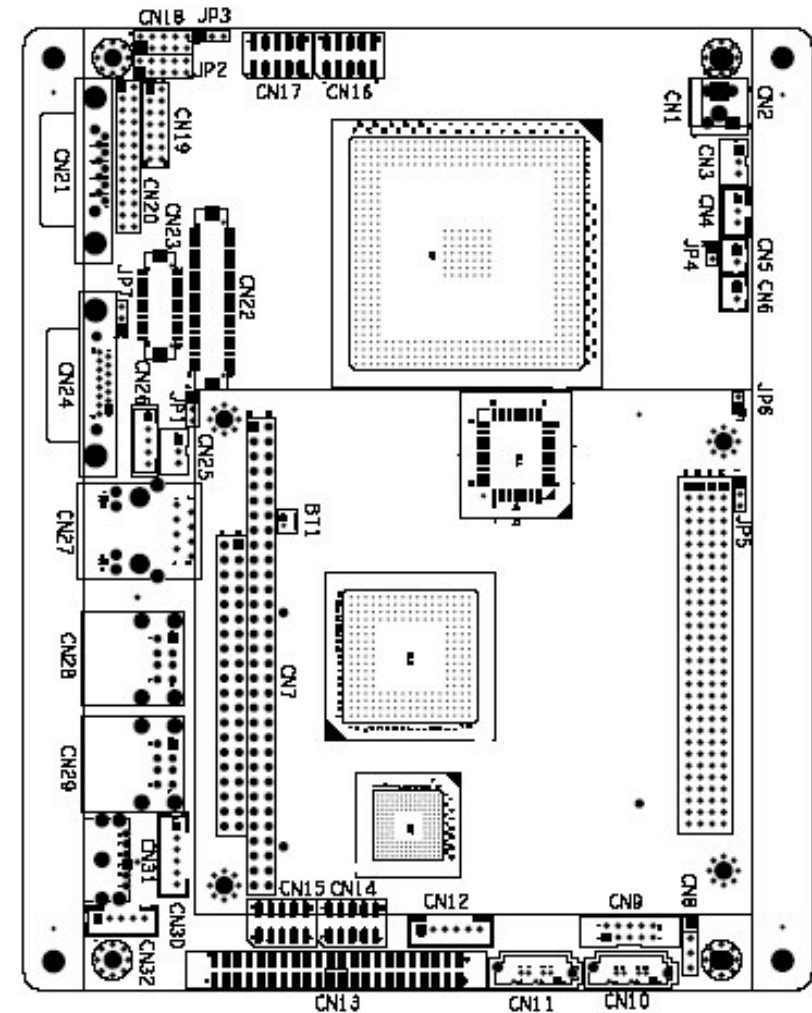


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Specifications

- CPU: AMD® Geode LX-800 processor
- System Chipset: AMD® CS5536
- BIOS: AWARD
- System memory: 1 x 200-pin DDR 333/400MHz SO-DIMM SDRAM up to 1GB
- Ethernet: 10/100Base-T RTL8100C
- I/O
 - I/O Interface:
 - 4 x USB 2.0
 - 2 x SATA-150
 - 1 x LPT
 - 1 x CFII
 - 6 x RS-232, 1 x RS-422/485
 - 1 x PS/2 keyboard/mouse
 - 1 x IDE
- Supper I/O: W83627EHG
- Audio: AC'97 Codec Realtek ALC202A
- Display:
 - CRT integrated in AMD® Geode LX800
 - TTL/ LVDS
 - 18-bit single channel LCD integrated in AMD Geode LX800
- Watchdog timer: Software programmable supports 1~255 sec. system reset
- Power Supply: AT/ATX power support
- Power Consumption:
 - +12V@0.92A (AMD LX 800 with DDR400 256MB RAM)
- Temperature: 0 ~ 60°C(32 ~ 140°F)
- Humidity: Operation: 5% ~ 95%
- Dimension: 145 x 102mm;Weight: GW:0.95Kg; NW: 0.35Kg

Layout



CN22:TFT TTL LCD			
PIN	Description	PIN	Description
2	VCC5	1	VCC5
4	GROUND	3	GROUND
6	VCC3	5	VCC3
8	GROUND	7	NC
10	FPD1	9	FPD0
12	FPD3	11	FPD2
14	FPD5	13	FPD4
16	FPD7	15	FPD6
18	FPD9	17	FPD8
20	FPD11	19	FPD10
22	FPD13	21	FPD12
24	FPD15	23	FPD14
26	FPD17	25	FPD116
28	FPD19	27	FPD18
30	FPD21	29	FPD20
32	FPD23	31	FPD22
34	GROUND	33	GROUND
36	FPVS	35	FPCLK
38	FPHS	37	FPDE
40	FPENVEE	39	NC

CN25:POWER INPUT	
PIN	Description
1	-VCC5
2	GROUND
3	-VCC12

CN26:Invertor Connector	
PIN	DESCRIPTION
1	BL_ADJ
2	GROUND
3	VCC12
4	GROUND
5	VDD_EN

CN30:KB/MS Connector	
PIN	Description
1	VCC5
2	Mouse DATA
3	Mouse Clock
4	Keyboard DATA
5	Keyboard Clock
6	GROUND

Jumpers

JP1 LCD PANNEL SHIFT CLOCK

JP1	Description
1-2	Inverted output
2-3	Normal output

JP2 : COM-1 , COM-2 RI Pin and Voltage selection (Optional)

	Description
1-3	COM-1 RI Pin use +12V
3-5	COM-1 RI Pin use +5V
7-9	COM-1 RI Pin use RI
2-4	COM-2 RI Pin use +12V
4-6	COM-2 RI Pin use +5V
8-10	COM-2 RI-Pin- useRI

JP3: COM3 RS422/RS485 Select

JP3	Description
1-2	UART-2 RxD Signal connect to RS-422
2-3	UART-2 RxD Signal connect to RS-485

JP4 : AT/ATX Power Mode select

JP4	Description
Short	AT Mode
Open	ATX Mode

JP5 : PC104 Plus VIO Voltage select jumper

	DESCRIPTION
1-2	5V
2-3	3.3V

JP6 : SERIRQ Select

	DESCRIPTION
Short	SERIRQ Enable
Open	SERIRQ Disable

Note: Serial IRQ can only work properly if PCMCIA supports Serial IRQ signal

JP7 : LCD Panel (LVDS/TTL)Voltage select

	DESCRIPTION
1-2	5V
2-3	3.3V

**CN1:Power Connector
Optional**

PIN	Description
1	Power IN (+12V)
2	GROUND

CN3:ATX Connector

PIN	DESCRIPTION
1	5VSB
2	GROUND
3	PS_ON

CN2:Power Connector (Default)

PIN	DESCRIPTION	PIN	DESCRIPTION
1	GROUND	2	Power IN (+12V)
3	GROUND	4	Power IN (+12V)

CN4:FAN Connector

PIN	Description
1	Rotation Signal
2	VCC5
3	GROUND

CN5:ATX Power button

PIN	DESCRIPTION
1	ATX Power button+
2	ATX Power button-

CN6:Rest Button

PIN	DESCRIPTION
1	Rest button+
2	Rest button-

CN8:AudioCD-IN Connector

PIN	DESCRIPTION
1	CD_L
2	GROUND
3	GROUND
4	CD_R

CN9:Audio Connector

PIN NO.	DESCRIPTION	PIN NO.	DESCRIPTION
1	LINE_OUT_R	2	LINE_IN_R
3	GROUND	4	GROUND
5	LINE_OUT_LR	6	LINE_IN_L
7	GROUND	8	GROUND
9	MIC1	10	MIC2

**CN19:COM2,CN14:COM3,CN15:COM4,CN17:COM5,
CN16:COM6**

PIN NO.	DESCRIPTION	PIN NO.	DESCRIPTION
1	DCD	2	DSR
3	RXD	4	RTS
5	TXD	6	CTS
7	DTR	8	RI
9	GND	10	GND
11	TXD485+	12	TXD485#
13	RXD485+	14	RXD485#

CN18:Digital I/O Connector

PIN NO.	DESCRIPTION	PIN NO.	DESCRIPTION
1	GND	2	VCC5
3	OUT0	4	OUT1
5	OUT2	6	OUT3
7	IN0	8	IN1
9	IN2	10	IN3

CN23:LVDS LCD Panel Connector

PIN	Description	PIN	Description
2	GROUND	1	GROUND
4	LVDS_Y0-	3	LVDS_Y0+
6	LVDS_Y1+	5	LVDS_Y1+
8	LVDS_Y2-	7	LVDS_Y2+
10	LVDS_CLK-	9	LVDS_CLK+
12	NC	11	NC
14	GROUND	13	GROUND
16	NC	15	NC
18	VCC5_LVDS	17	VCC5_LVDS
20	VCC3_LVDS	19	VCC3_LVDS

CN32:IrDA connector

PIN	DESCRIPTION
1	VCC5
2	NC
3	IR-RX
4	GROUND
5	IR-TX