

NX15MXL

Intel® Atom™ Processor Nano ITX Motherboard

Startup Manual

Packing List

Before you begin installing your single board, please make sure that the following parts have been shipped.

- 1 x NX15MXL Nano ITX Main board
- 1 x CD-ROM contains the followings:
 - User's Manual in PDF file
 - Drivers
- 1 x Cable Kit
 - 1 x COM Cable w/o Bracket (9P/2.00mm)
 - 1 x IDE Cable (44P-44P)
 - 1 x MD6M to MD6F*2 Cable
 - 1 x ATX Power Cable (6P-20P)
- 1 x Startup Manual

Disclaimer and Notice



The manufacturer reserves the right to make changes, without notice, to any product, including circuits and/or software described or contained in this manual in order to improve design and/or performance. The manufacturer assumes no responsibility or liability for the use of the described product(s), conveys no license or title under any patent, copyright, or masks work rights to these products, and makes no representations or warranties that these products are free from patent, copyright, or mask work right infringement, unless otherwise specified. For the detail product information, please refer to user's manual.

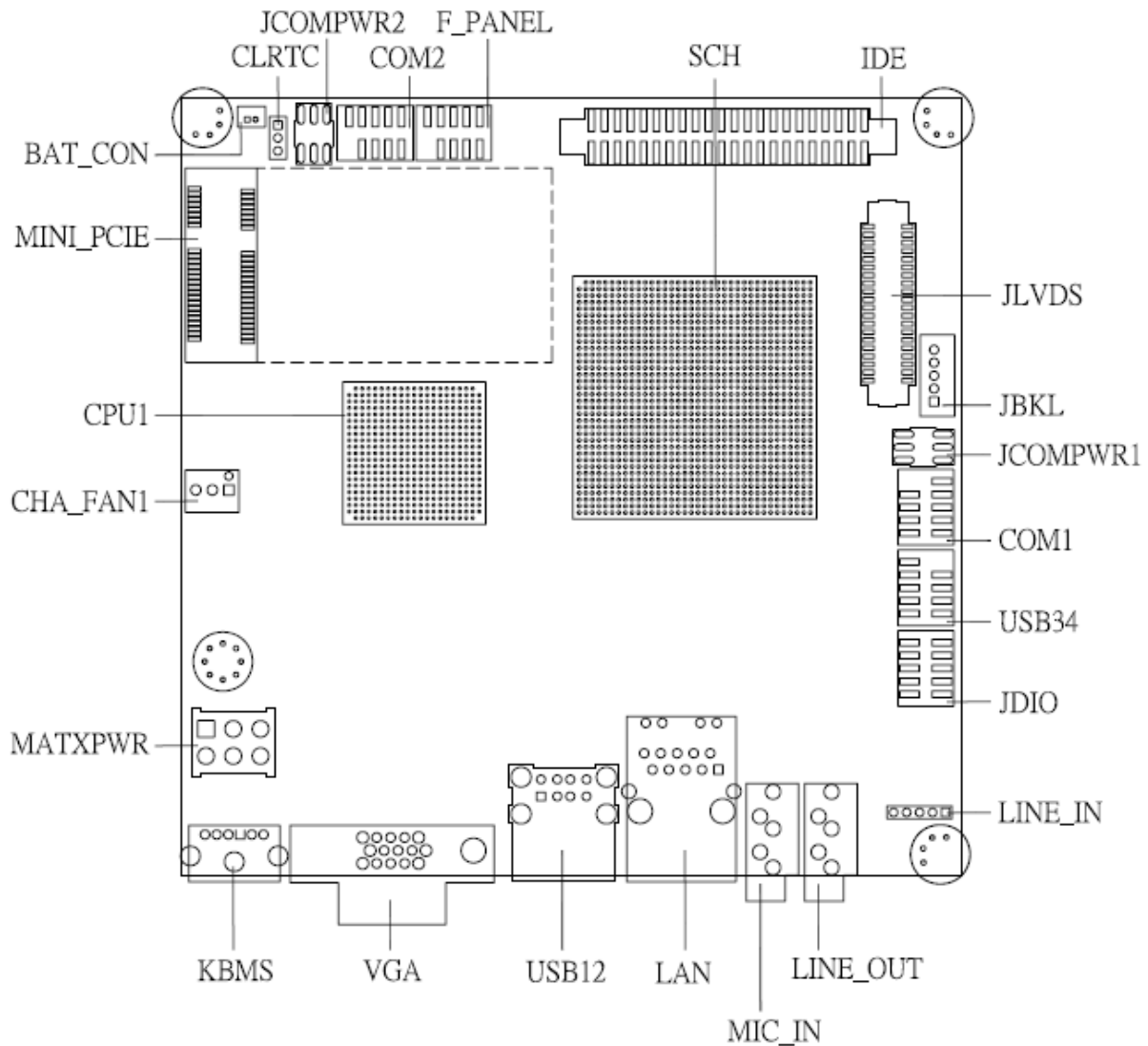
Safety Declaration



This device complies with the requirements in Part 15 of the FCC rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired operation.

Product Overview

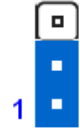

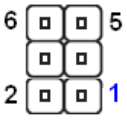
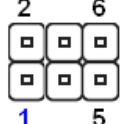
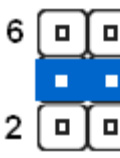
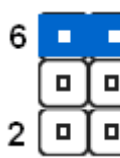
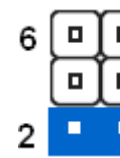



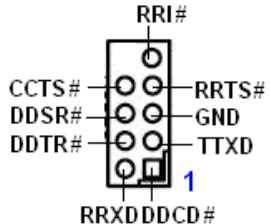
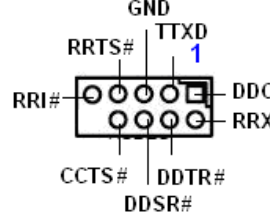
Specifications

System

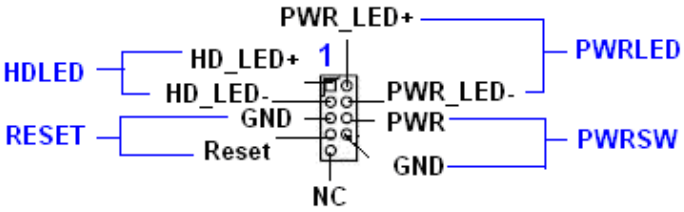
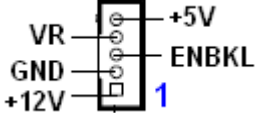
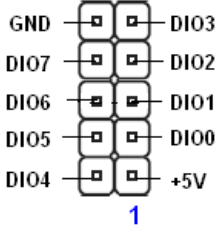
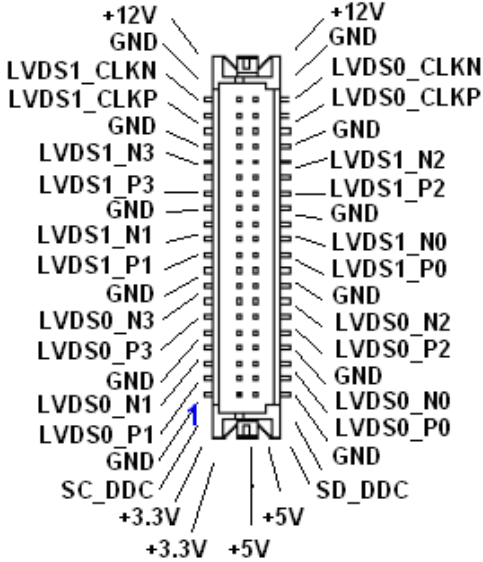
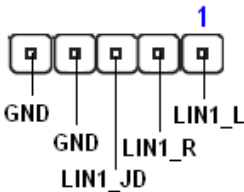
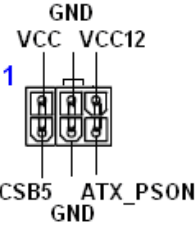
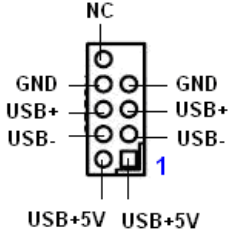
CPU	Intel® Atom™ processor Z510P 1.1GHz/Z530P 1.6GHz
FSB	400/533 MHz
BIOS	Award 8 Mb FWH BIOS
System Chipset	Intel® System Controller Hub US15WP
I/O Chipset	Winbond W83627DHG
Memory	1 x 200-pin SODIMM 2 GB DDR2 533 SDRAM
Watchdog Timer	Reset: 1 sec.~255 min. and 1 sec. or 1 min./step
H/W Status Monitor	Monitoring CPU temperature, voltage, and cooling fan status. Auto throttling control when CPU overheats
Expansion Slots	1 x Mini PCIe, 1 x CF
DIO	8-bit General Purpose I/O for 4 DI and 4 DO
S3 / S4	S3/S4
Wake up on LAN or Ring	Both (PXE / RPL / WOR)
SmartFan Control	Support 3 modes (Silent/Optimal/Performance)

Display	
Chipset	Intel® System Controller Hub US15WP
Display Memory	Intel® Graphics Media Accelerator 500 (Intel® GMA 500)
Max. Resolution	LVDS Display : 1366 x 768 @85 MHz Ext Display: 1280 x 1024 @ 85 Hz maximum resolution
Dual Display	Yes, LVDS+VGA
VGA	Yes
LVDS	Yes, 18/24 bit Single Channel
LVDS Backlight Power	Yes
Audio	
Audio Codec	Realtek ALC 888 (co-lay ALC 888VC)
Audio Interface	Mic in , Line out (2 jack) , Line in pin header
Ethernet	
LAN1	Realtek RTL 8111C Gigabit LAN

Jumpers			
Label	Function	Note	
CLRTC	Clear CMOS	Normal *	Clear CMOS
			
JCOMPWR1, JCOMPWR2	COM1, COM2 RI/+5V/+12V Select	RI *	+5V +12V
	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>COM1</p>  </div> <div style="text-align: center;"> <p>COM2</p>  </div> </div>		
			

Connectors		
Label	Function	Note
CHA_FAN1	Chassis Fan Connector	Power Pin GND Sense 
COM1, COM2	Serial Port Connector	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>COM1</p>  </div> <div style="text-align: center;"> <p>COM2</p>  </div> </div>

Connectors

Label	Function	Note
F_PANEL	System Panel Connector	 <p>Diagram showing the F_PANEL connector with the following connections:</p> <ul style="list-style-type: none"> HDLED: HD_LED+ (pin 1), HD_LED- RESET: Reset PWR_LED+: PWR_LED+ PWR_LED-: PWR_LED- PWR: PWR GND: GND NC: NC
JBKL	LCD Inverter Connector	 <p>Diagram showing the JBKL connector with the following connections:</p> <ul style="list-style-type: none"> VR: VR GND: GND +12V: +12V +5V: +5V ENBKL: ENBKL
JDIO	Digital I/O Connector	 <p>Diagram showing the JDIO connector with the following connections:</p> <ul style="list-style-type: none"> DI03: DI03 DI07: DI07 DI06: DI06 DI05: DI05 DI04: DI04 DI02: DI02 DI01: DI01 DI00: DI00 +5V: +5V
JLVDS	LVDS Connector	 <p>Diagram showing the JLVDS connector with the following connections:</p> <ul style="list-style-type: none"> LVDS1 signals: LVDS1_CLKN, LVDS1_CLKP, LVDS1_N3, LVDS1_P3, LVDS1_N1, LVDS1_P1, LVDS1_N2, LVDS1_P2, LVDS1_N0, LVDS1_P0 LVDS0 signals: LVDS0_CLKN, LVDS0_CLKP, LVDS0_N3, LVDS0_P3, LVDS0_N1, LVDS0_P1, LVDS0_N2, LVDS0_P2, LVDS0_N0, LVDS0_P0 Power: +12V, +12V, +3.3V, +3.3V, +5V, +5V Other: GND, GND, GND, GND, GND, GND, GND, GND, GND, GND, SC_DDC, SD_DDC
LINE_IN	Audio Line-In Connector	 <p>Diagram showing the LINE_IN connector with the following connections:</p> <ul style="list-style-type: none"> GND: GND LIN1_L: LIN1_L LIN1_R: LIN1_R LIN1_JD: LIN1_JD
MATXPWR2	ATX Power Connector	 <p>Diagram showing the MATXPWR2 connector with the following connections:</p> <ul style="list-style-type: none"> GND: GND VCC: VCC VCC12: VCC12 VCCSB5: VCCSB5 ATX_PSON: ATX_PSON
USB34	USB 2.0 Connector	 <p>Diagram showing the USB34 connector with the following connections:</p> <ul style="list-style-type: none"> GND: GND USB+: USB+ USB-: USB- USB+5V: USB+5V USB+5V: USB+5V