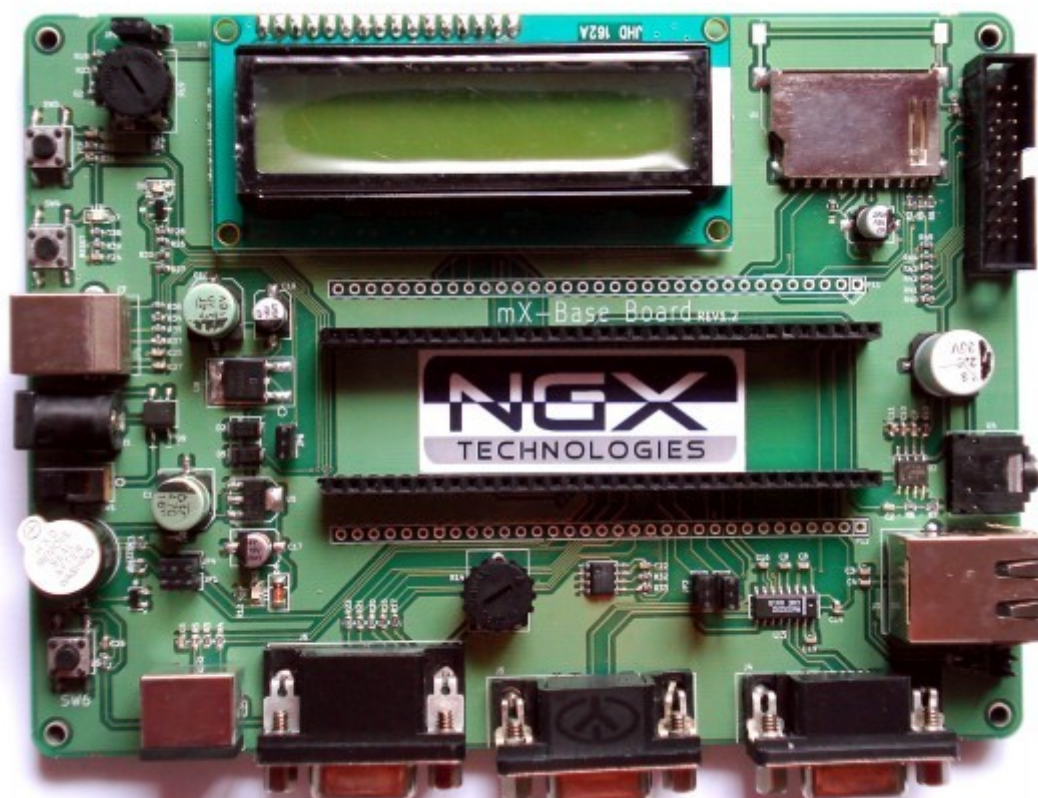


mX-BaseBoard



USER MANUAL



Table of Contents

Introduction.....	2
Features.....	2
Modules and Jumpers Relationship.....	3
Variable Resistor Description	4
Button Description.....	4
Information.....	4
Revision History.....	4
Legal.....	4
Disclaimers	5
Trademarks	5

Introduction

The mX-BaseBoard is another new offering from NGX Technologies for use with mbed and LPC Xpresso boards. It can also be used with NGX mX-Stamp boards with controllers like LPC 2148, LPC 1768, LPC 1343 LPC 1114. Refer to the website for new stamp boards. mX-BaseBoard has various peripherals with configurable jumpers. Two 27 pin expansion dual row header connectors (P9-P11) and (P10-P12) (male-female, 100mil pitch) for simple connection .

Features

- 2x16 with contrast control & back light
- SD Card connector
- Power Jack
- Power Switch
- Reset Button
- ISP Button
- External interrupt Button
- Buzzer
- Audio Jack
- Ethernet Connector
- 20 pin JTAG header
- PS/2 keyboard
- VGA connector
- Serial Connector 0
- Serial Connector 1
- Preset for ADC
- On board EEPROM
- GPIO brought to male header pins

Note: Features are dependent on the stamp.

Modules and Jumpers Relationship

Jumper	Related Module	Usage
JP1	Buzzer	Connecting this will enable buzzer operation
JP2	UART1	Connecting this will connect RxD1 with Rx1
JP3	UART1	Connecting this will connect TxD1 with Tx1
JP4	Power supply 3.3V	Connecting this will provide 3.3V supply to board.
JP5	LCD Back Light	Connecting pin 1-2 Back Light continuously ON Connecting pin 2-3 Back Light under control of GPIO
JP6	Power supply 5.0V	Connecting this will provide 5.0V supply to board.
JP7	VBAT	Used to connect external VBAT

Variable Resistor Description

Resistor	Related Module	Usage
R19	LCD	Control LCD Contrast
R14	ADC	Varies input voltage for ADC input

Button Description

Button	Related Module	Usage
SW4	RESET	Used to RESET the board
SW5	ISP	Used to get into ISP mode
SW6	EXT. INT.	Used for external interrupt

Note:

The first pin will be marked with the arrow mark as shown in the picture.



Information

Revision History

version: v1.0 author: Milind Kakati

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