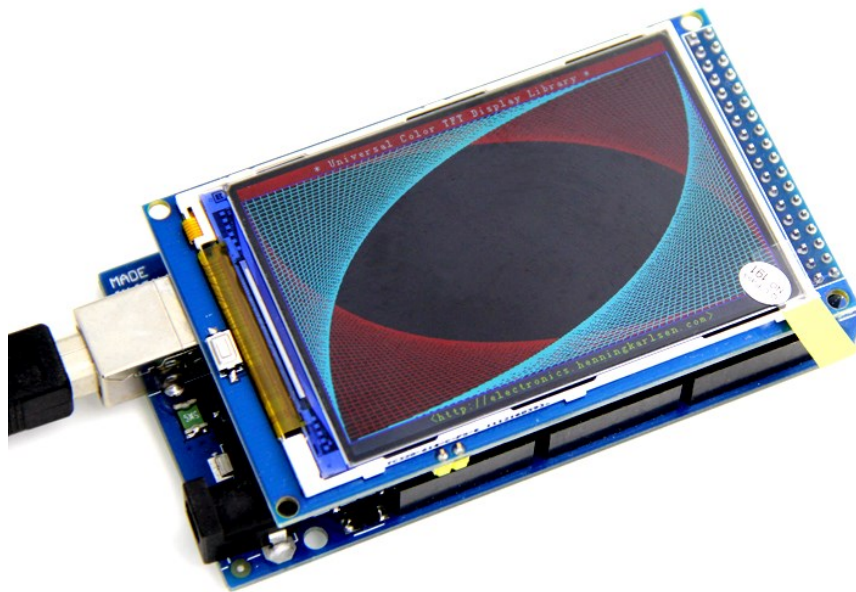


3.2" TFT 480x320 For Arduino Mega2560

Model:QDM320DBXNT8357RA



Overview

QDM320DBXNT8357RA module is 3.2" TFT LCD with 262K color 480x 320 resolutions. The controller of this LCD module is HX8357B, it supports 16-wires DataBus interface. Moreover, this module includes the 5V-3.3V power conversion circuit and Level conversion circuit, This Module can Directly inserted into the **Arduino Mega2560 Board** ,it also includes the SD card socket and SPI FLASH circuit.

Features

- **Support Arduino Mega2560 Directly inserted**
- **With Full-angle IPS TFT panel**
- **OnBoard level conversion chip for 5V/3.3V MCU**
- **Compatible with 3.3/5V operation voltage level**
- **Compatible with Arduino-Series development Board.**
- **Compatible with UTFT / UTFT_Buttons / Utouch Library for arduino.**
- **provided 12-examples with Arduino ,3-examples with STM32**
- **With SD Card Socket**
- **With SPI FLASH circuit**

Specifications

Item	Description
Display Type	3.2 inch a-si TFT LCD Module
Glass Type	TFT IPS(Full-Angle)
Display Resolution	480X320 Pixels
Back light	6 chip HighLight white LEDs
Control IC	HX8357B
Interface	16Bit parallel interface
PCB Module size	89.92mmX54.25mm
LCD Area(WxHxT)	50.74mmX78.35mmX1.88mm
Active Area(WxH)	67.68mmX45.12mm
Module weight	TDB
Power Consumption	80-110 (mA)
Module Supply	5V/3.3V

Electrical Characteristics

Specification	Min	Type	Max	Unit
Power Voltage(VDD/VCC)	3.3	5	5.5	VDC
IO Pins Voltage	MCU Voltage = 3.3V	3	3.3	V
	MCU Voltage = 5V	4.5	5	
BackLight Voltage	2.8	3.2	3.3	V
Current Consumption	-	100	-	mA

Hardware

Pin Map			
No	Pin	Type*	Description
1	5V	P	5V Power Supply in
2	5V	P	5V Power Supply in
3	LCD_DB8	I	Data Bus
4	LCD_DB9	I	Data Bus
5	LCD_DB10	I	Data Bus
6	LCD_DB11	I	Data Bus
7	LCD_DB12	I	Data Bus
8	LCD_DB13	I	Data Bus
9	LCD_DB14	I	Data Bus
10	LCD_DB15	I	Data Bus
11	LCD_DB7	I	Data Bus
12	LCD_DB6	I	Data Bus
13	LCD_DB5	I	Data Bus
14	LCD_DB4	I	Data Bus
15	LCD_DB3	I	Data Bus
16	LCD_DB2	I	Data Bus
17	LCD_DB1	I	Data Bus
18	LCD_DB0	I	Data Bus
19	LCD_RS	I	LCD Cammand/Data Selection(0:cammand;1:Data)
20	LCD_WR	I	LCD Write signal
21	LCD_CS	I	LCD Chip Selection,Low level active
22	LCD_RST	I	LCD Reset(Low level Enable)
23	NC	-	No connection
24	NC	-	No connection
25	NC	-	No connection
26	FLASH_CS	I	Exten circuit: SPI_FLASH Chip Sellaction
27	NC	-	No connection
28	NC	-	No connection
29	NC	-	No connection
30	NC	-	No connection
31	SPI_MISO	O	Exten circuit: SPI Bus Data output
32	SPI_MOSI	I	Exten circuit: SPI Bus Data input
33	SPI_CLK	I	Exten circuit: SPI Bus Clock
34	SD_CS	I	Exten circuit: Extern SDCard Chip Sellaction
35	GND	G	Ground
36	GND	G	Ground

* : P:Power supply;G:Ground;I:Input;O:Output

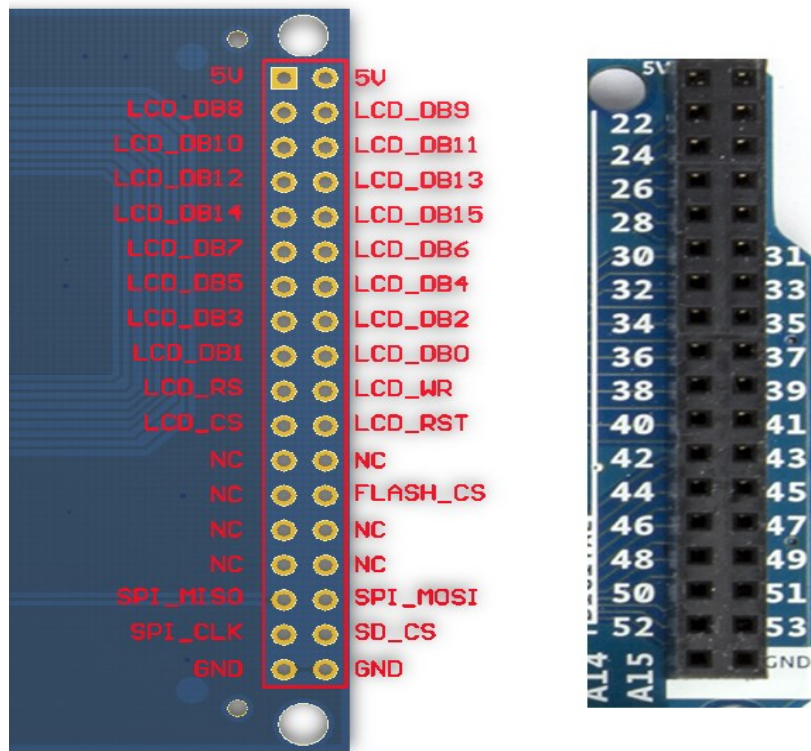
PinMap



How to Connect with Mega2560

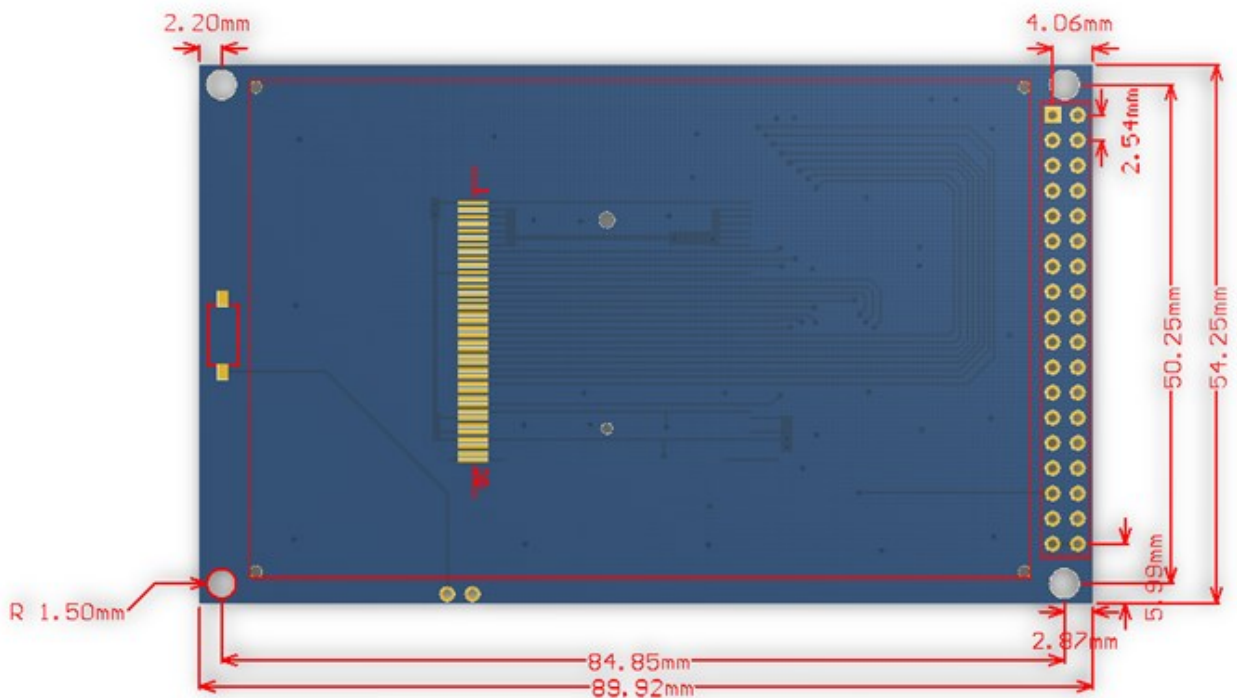


Top view



Top view

Module Structure

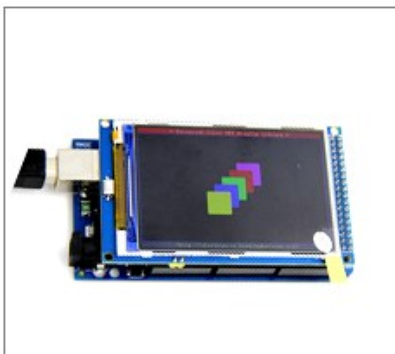
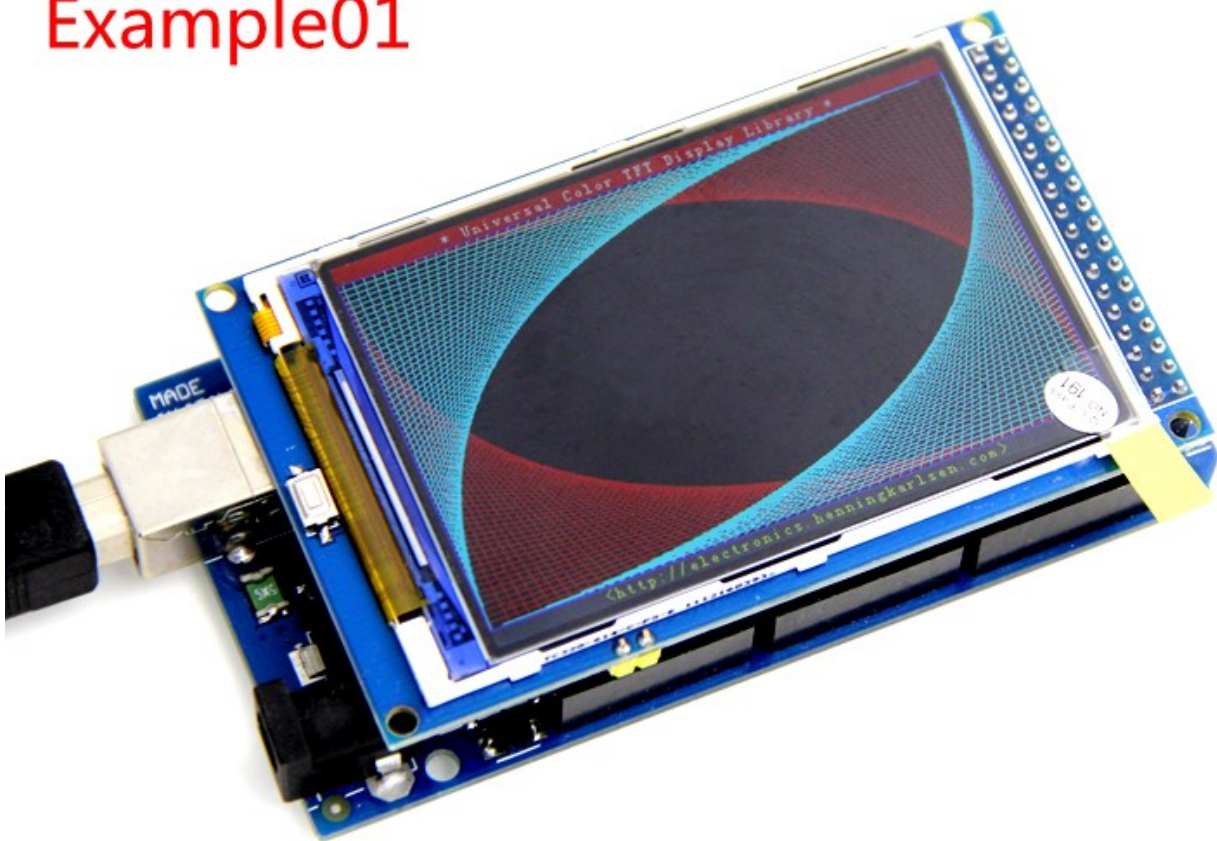


Demo Effect

UTFT_Demo Test for Arduino

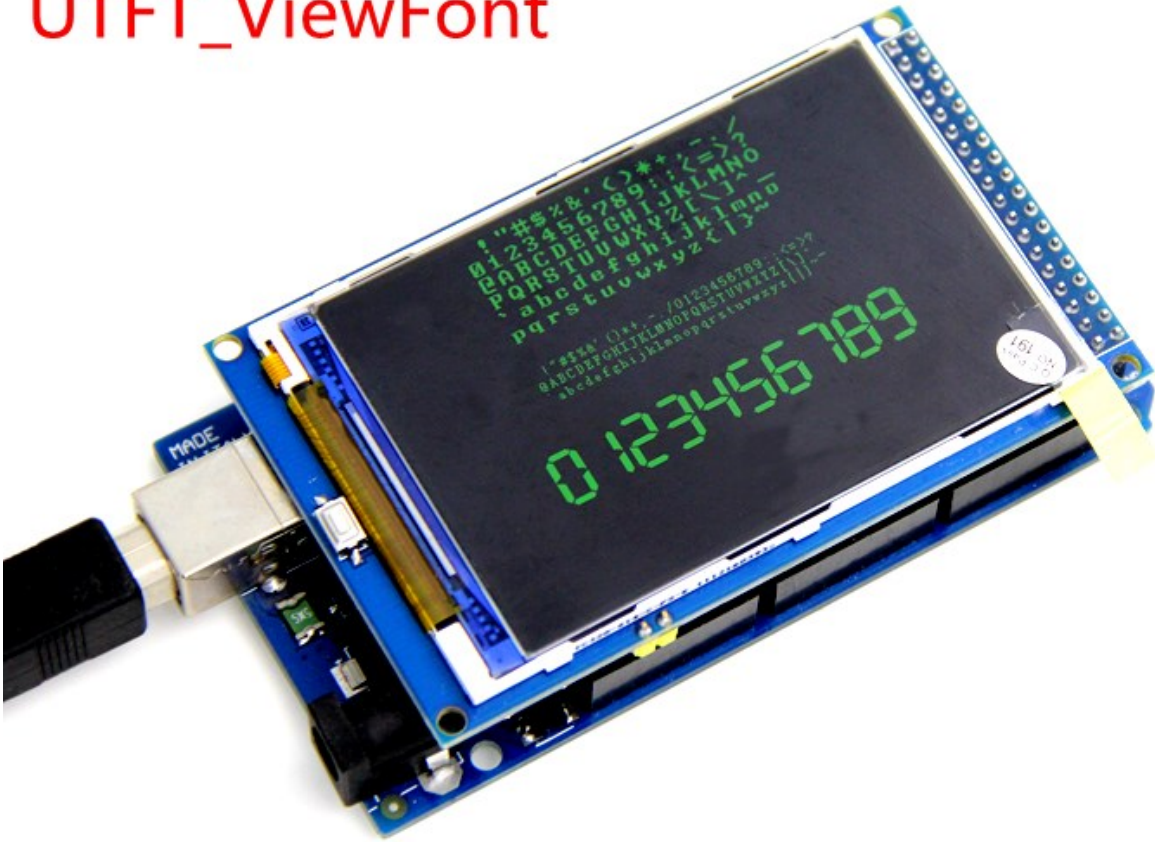
Mega2560

Example01



Example02

UTFT_ViewFont



Example03



UTFT_Buttons_Demo

Example04



UTouch_ButtonTest

Example05



UTFT_Textrotation

Example06



UTFT_Buttons_Bitmap

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