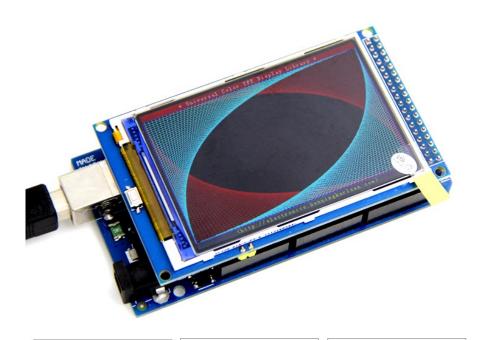
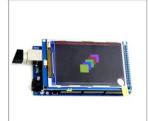
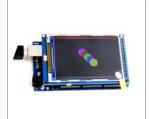
QDM300C









Overview

QD300DB16NT8357RA module is 3.0" TFT LCD with 262K color 480x 320 resolutions. The controller of this LCD module is HX8357C, 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
- OnBorad 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	3.0 inch a-si TFT LCD Module
Glass Type	TFT IPS(Full-Angle)
Display Resolution	480XRGBX320 Pixels
Back light	6 chip HighLight white LEDs
Control IC	HX8357C
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

Electrical Characteristics

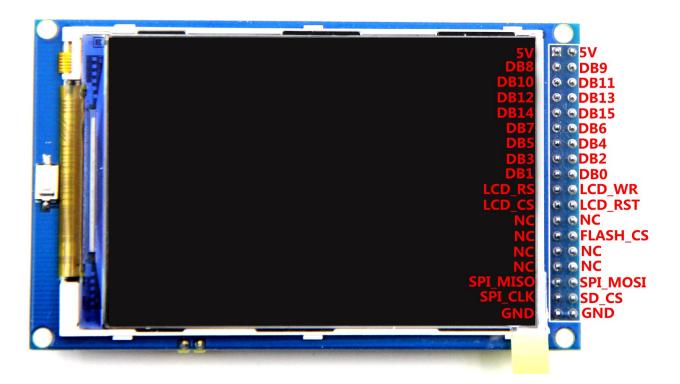
Specification		Min	Type	Max	Unit	
Power Voltage(VDD/VCC)		3.3	5	5.5	VDC	
IO Pins Voltage	MCU Voltage = 3.3V	3	3.3	3.6	V	
	MCU Voltage = 5V	4.5	5	5.5		
BackLight Voltage		2.8	3.2	3.3	V	
Current Consumption		-	100	-	mA	

Hardware

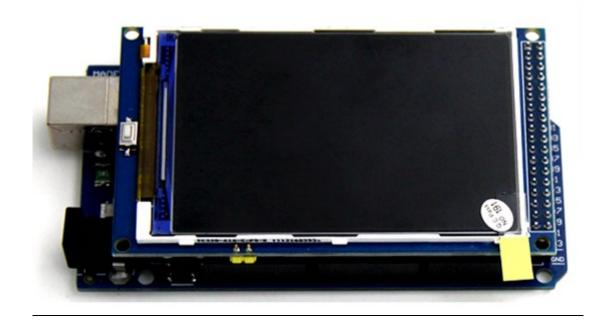
Pin Map				
No	Pin	Type*	Description	
1	5V	Р	5V Power Supply in	
2	5V	Р	5V Power Supply in	
3	LCD_DB8	I	Data Bus	
4	LCD_DB9	I	Data Bus	
5	LCD_DB10	I	Data Bus	
6	LCD_DB11	I	Data Bus	
7	LCD_DB12	I	Data Bus	
8	LCD_DB13	I	Data Bus	
9	LCD_DB14	I	Data Bus	
10	LCD_DB15	I	Data Bus	
11	LCD_DB7	I	Data Bus	
12	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 Sellection	
27	NC	-	No connection	
28	NC	-	No connection	
29	NC	-	No connection	
30	NC	-	No connection	
31	SPI_MISO	0	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 Sellection	
35	GND	G	Ground	
36	GND	G	Ground	
* : P:Power supply;G:Ground;I:Input;O:Output				

The professional LCD supplier

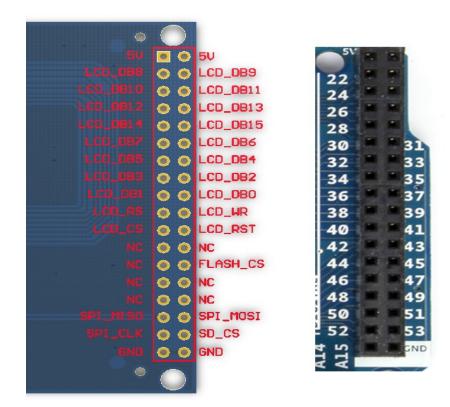
PinMap



How to Connect with Mega2560

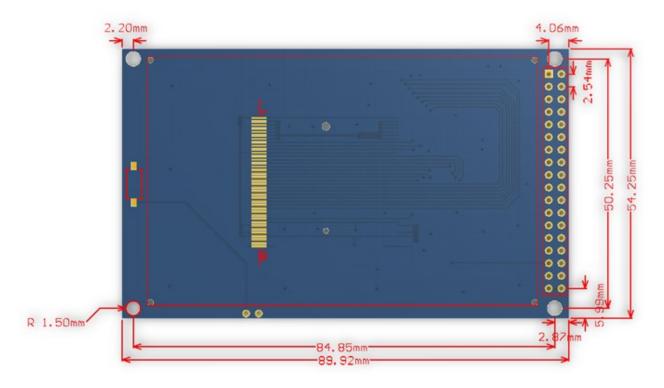


Top view



Top view

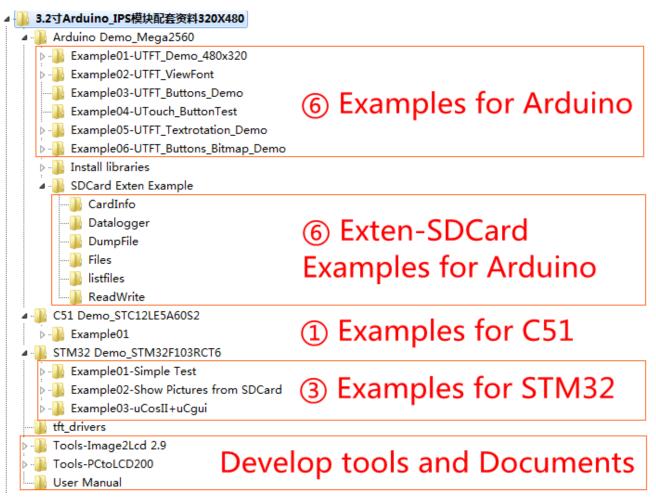
Module Structure



Development Document

- 6 examples with UTFT librarie for Arduino.
- 6 SDCard Exten examples with SD library for Arduino.
- 3 examples for STM32.
- 1 examples for C51.
- Develop toos and documents.

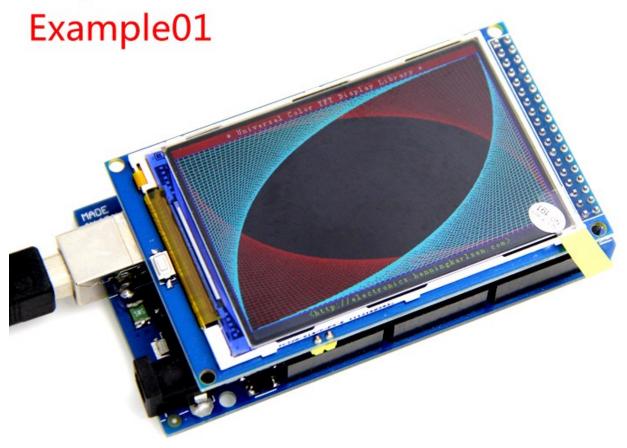
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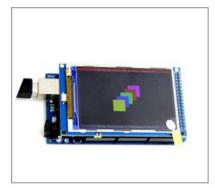


Demo Effect

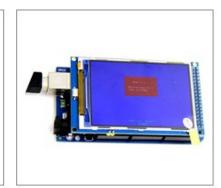
UTFT_Demo Test for Arduino

Mega2560

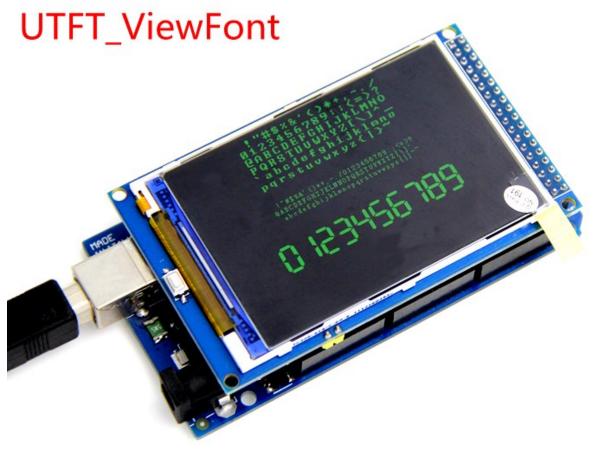






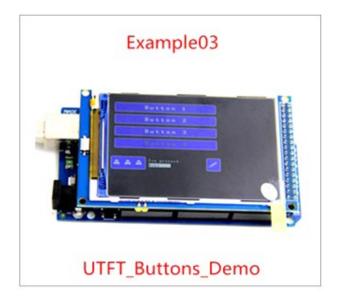


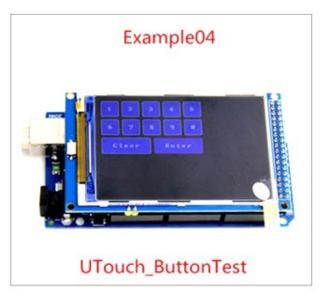
Example02

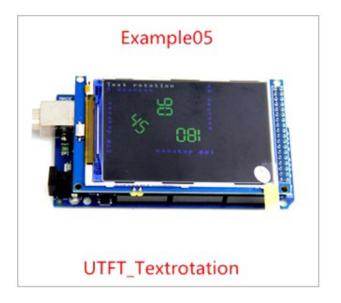














Revision History

Rev.	Description	Release date
V1.0	Initial version	2014/8/25
V1.1	Correction.	2014/9/15