NX8048K050

From ITEAD Wiki

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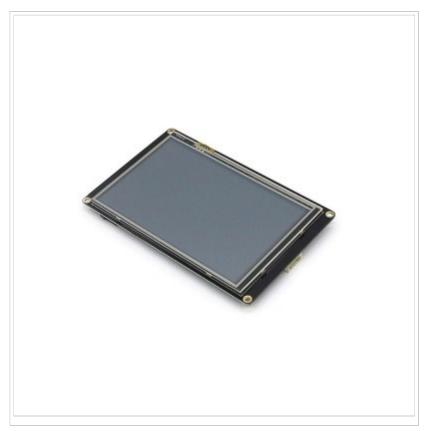
Overview

Nextion is a Seamless Human Machine Interface (HMI) solution that provides a control and visualisation interface between a human and a process, machine, application or appliance. Nextion is mainly applied to IoT or consumer electronics field. It is the best solution to replace the traditional LCD and LED Nixie tube. With the software - Nextion Editor (Official Download (http://nextion.itead.cc/download.html)), users are able to create and design their own interfaces for Nextion display.

The **Nextion Enhanced** versions are more powerful. Compare to the basic Nextion displays, the new ones have added some new functions: support built-in RTC, support save data to Flash, support GPIO, larger flash capacity and larger CPU clock. The enhanced Nextion series has 7 size covers from generic 2.4 to 7.0.

Nextion Enhanced NX8048K050 is a powerful 5.0" HMI TFT display, with 32MB Flash data storage space, 1024 byte EEPROM, 8192 byte RAM, and GPIO supported.

Go shopping NX8048K050 (SKU:IM160511007) (https://www.itead.cc/nextion-nx8048k050.html)



Nextion Models

Nextion_Type	Enhanced			
Nextion Models	NX8048K050_011N (N: No touch)			
	NX8048K050_011R (R: Resistive touch screen)			

Note: there's a small power supply test board and a wire inside the package for you to test if the electricity supply is enough or not. Please see below image on how to use it.

Caution:

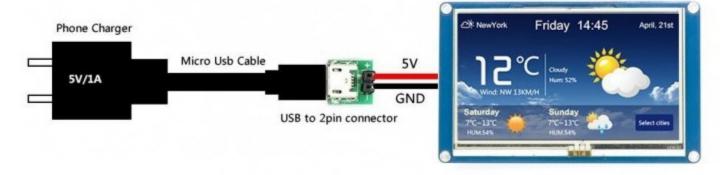




Blurred screen? Flashing? You may be suffering from power shortages. Power off at the first possible moment. No more repeated attempts to damage your Nextion model.

A small connector is included in the package. Please try to power Nextion with your phone charger through the connector to check if Nextion works well.

A high quality usb cable is required.



Nextion User Manual: http://goo.gl/LbvAJ5

Specification

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	Data	Description
Color	65K (65536) colors	16 bit, 5R6G5B
Lavout size	133.50(L)×84(W)×5.4(H)	NX8048K050_011N
Layout size	133.50(L)×84(W)×6.8(H)	NX8048K050_011R
Active Area (A.A.)	118.50mm(L)×77.55mm(W)	-
Visual Area (V.A.)	108mm(L)×64.80mm(W)	-
Resolution	800×480 pixel	Also can be set as 480×800 pixel
Touch type	Resistive	-
Touches	> 1 million	-
Backlight	LED	-
Backlight lifetime (Average)	>30,000 Hours	-
Duialetuasa	250nit (NX8048K050_011N)	0% to 100%, the interval of adjustment is 1%
Brightness	230 nit (NX8048K050_011R)	0% to 100%, the interval of adjustment is 1%
Waisht	108g (NX8048K050_011N)	-
Weight	128g (NX8048K050_011R)	-

Electronic Characteristics

	Test Conditions	Min	Typical	Max	Unit
Operating Voltage		4.75	5	7	V
Operating Current	VCC=+5V, Brightness is 100%	-	410	-	mA
	SLEEP Mode	-	15	-	mA
Recommended Power Supply: 5V, 1A, DC					

Working Environment & Reliability Parameter

	Test Conditions	Min	Typical	Max	Unit
Working Temperature	5V, Humidity 60%	-20	25	70	°C
Storage Temperature	-	-30	25	85	°C
Working Humidity	25°C	10%	60%	90%	RH

Interfaces Performance

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	Test Conditions	Min	Typical	Max	Unit	
Serial Port Baudrate	Standard	2400	9600	115200	bps	
Output High Voltage	IOH=-1mA	3.0	3.2	-	V	
Output Low Voltage	IOL=1mA	-	0.1	0.2	V	
Input High Voltage	-	2.0	3.3	5.0	V	
Input Low Voltage	-	-0.7	0.0	1.3	V	
Serial Port Mode	TTL					
Serial Port	4Pin_2.54mm					
USB interface	NO					
SD card socket	Yes (FAT32 format), support maximum 32G Micro SD Card					
	8 extended IO					
Extended IO	I00-I07 support input, output and component binding event;					
	I04-I07 support PWM					
RTC	Support built-in RTC (Battery type: CR1220)					

Memory Features

Memory Type	Test Conditions	Min	Typical	Max	Unit
FLASH Memory	Store fonts and images	-	-	32	MB
User Storage	EEPROM	-	1024	_	byte
RAM Memory	Store variables	-	8192	_	Byte
Instruction Buffer	Instruction Buffer		1024		Byte

Product Dimension

5.0 Nextion Dimension

Download

File:Enhanced_Nextion_5.0-7.0_Demo.zip

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