NX3224T028

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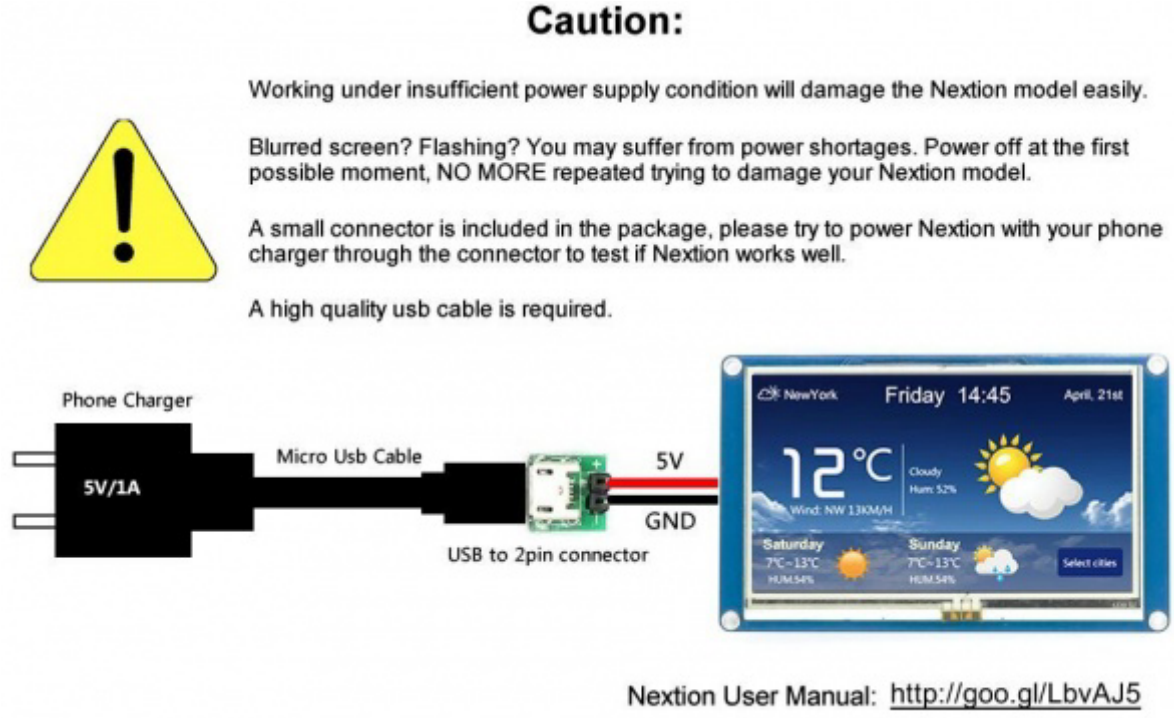
Overview

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.

Go shopping NX3224T028 (im150416004) (http://imall.itead.cc/nextion-nx3224t028-1707.html)

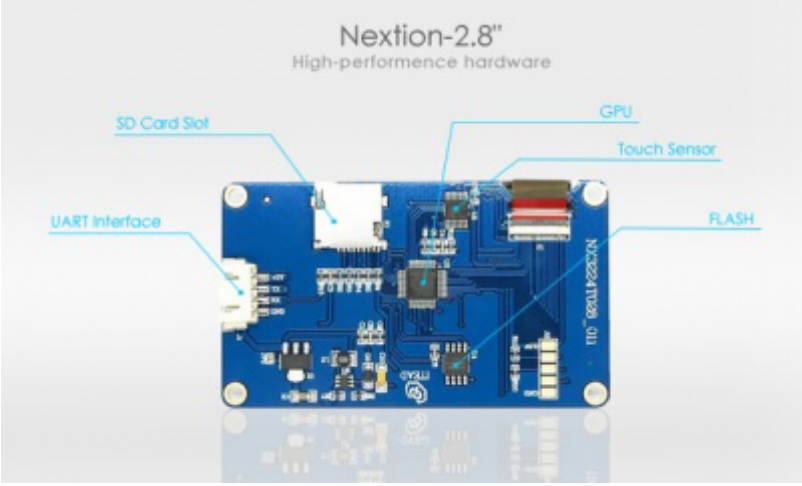
Package include: a Nextion 2.8" display, a wire, a power supply test board

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



Nextion Models

Nextion Type	Basic
Nextion Models	NX3224T028_011N (N: No touch)
	NX3224T028_011R (R: Resistive touchscreen)



Specification

	Data	Description
Color	65K (65536) colors	16 bit, 5R6G5B
Layout size	85(L)×49.8(W)×4.6(H)	NX3224T028_011N
	85(L)×49.8(W)×5.8(H)	NX3224T028_011R
Active Area (A.A.)	70.2mm(L)×49.8mm(W)	-
Visual Area (V.A.)	57.6mm(L)×43.2mm(W)	-
Resolution	320×240 pixel	Also can be set as 240×320
Touch type	Resistive	-
Touches	> 1 million	-
Backlight	LED	-
Backlight lifetime (Average)	>30,000 Hours	-
Brightness	200nit (NX3224T028_011N)	0% to 100%, the interval of adjustment is 1%
	180 nit (NX3224T028_011R)	0% to 100%, the interval of adjustment is 1%
Weight	32g (NX3224T028_011N)	-
	29.5g (NX3224T028_011R)	-

Electronic Characteristics

	Test Conditions	Min	Typical	Max	Unit
Operating Voltage		4.75	5	7	V
Operating Current	VCC=+5V, Brightness is 100%	-	65	-	mA
	SLEEP Mode	-	20	-	mA
Power supply recommend：5V, 500mA, DC					

Working Environment & Reliability Parameter

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

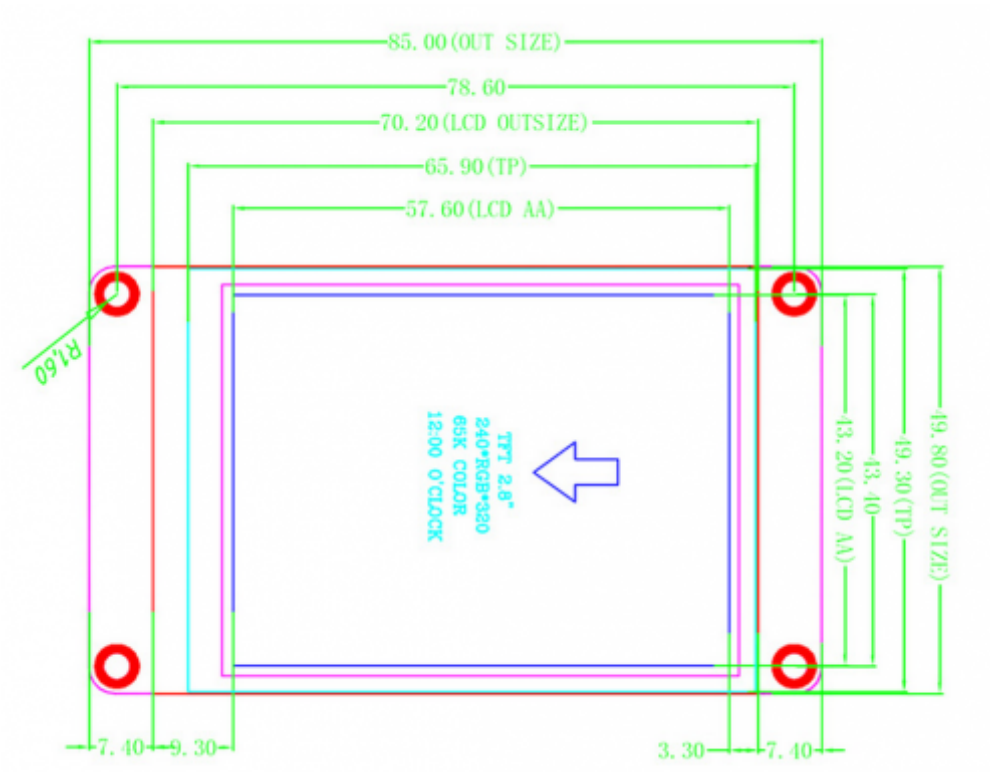
Interfaces Performance

	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				

Memory Features

Memory Type	Test Conditions	Min	Typical	Max	Unit
FLASH Memory	Store fonts and images	-	-	4	MB
RAM Memory	Store variables	-	3584	-	BYTE

Product Dimension



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