NEXTION

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Nextion Editor Guide

Instruction Set

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 Nextion Editor software (Official Download), users are able to create and design their own interfaces for Nextion display.

Package includes: Nextion Display, connecting wire, a power supply test board.
Go Shopping: NX3224T028 (IM150416004)
Note: the small power supply test board and connecting wire inside the package allow you to test if the electrical supply is enough or not. See the image below on how to use it.
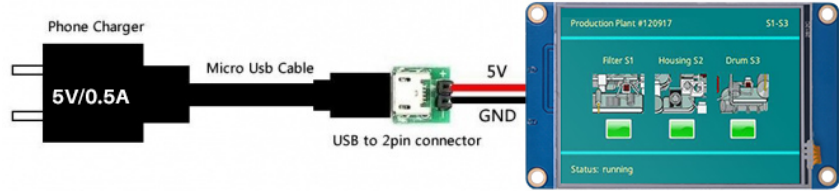

Nextion Models

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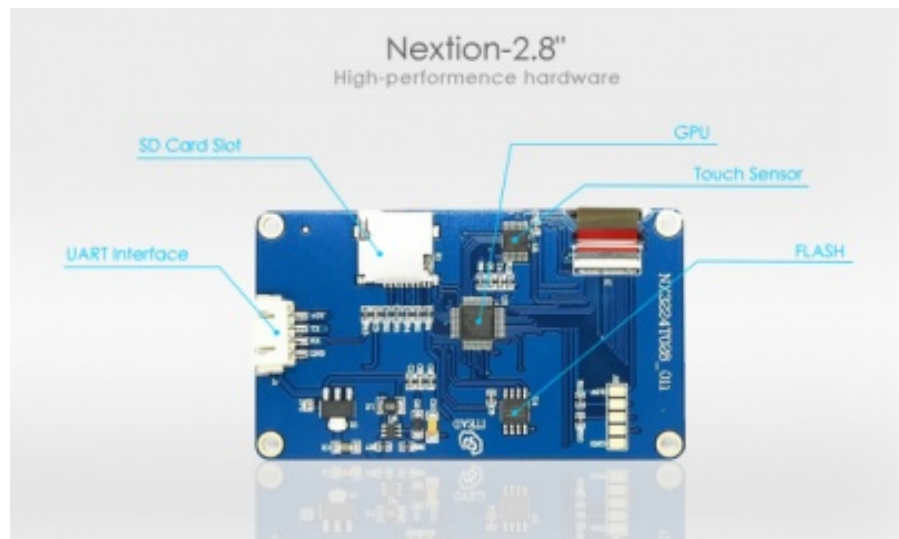
Specifications

	Data	Description
Color	64K 65536 colors	16 bit 565, 5R-6G-5B
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	–	15	–	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	°C
Storage Temperature		-30	25	85	°C
Working Humidity	25°C	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 * microSD card socket is exclusively used to upgrade Nextion firmware /HMI design				

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 Dimensions

2.8"_Nextion_Dimension

Product Certificates

CE-EMC, RoHS

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