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Nextion Editor Guide

Instruction Set

NX3224T028

Overview Nextion Models Specifications Electronic Characteristics Working Environment & Reliability Parameter Interfaces Performance Memory Features Product Dimensions



Overview

Nextion is a seamless Human Machine Interface (HMI) solution that provides a control and visualisation interface between a human and a process, machine,

Datasheets >	
Intelligent Series	>
Enhanced Series	>
Basic Series >	
NX3224T024	
NX3224T028	
NX4024T032	
NX4832T035	
NX4827T043	
NX8048T050	
NX8048T070	

Policies

>

FAQs

NX3224T028 - Nextion

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.

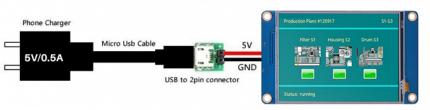
Caution:

Working under insufficient power supply condition will damage the Nextion model easily.

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.

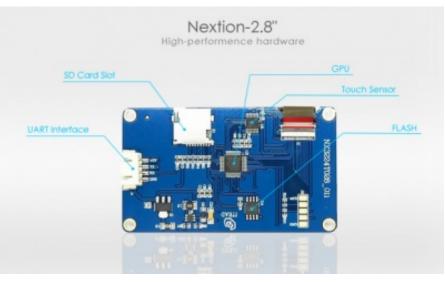
A high quality usb cable is required.



Nextion Models

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

NX3224T028 - Nextion



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	57.6mm(L)×43.2mm(W)	
(V.A.)		
Resolution	320×240 pixel	Also can be set
		as 240×320
Touch type	Resistive	
Touches	> 1 million	
Backlight	LED	
Backlight	>30,000 Hours	
lifetime		
(Average)		
Brightness	200nit	0% to 100%, the
	(NX3224T028_011N)	interval of

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		adjustment is 1%
	180 nit	0% to 100%, the
	(NX3224T028_011R)	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	

NX3224T028 - Nextion

BaudrateIOH=-1mA3.03.2VHighIOH=-1mAIOHIOHIOH	ops /				
Output IOH=-1mA 3.0 3.2 V High	J				
High	J				
Voltage					
Output IOL=1mA 0.1 0.2 V	/				
Low					
Voltage					
Input 2.0 3.3 5.0 V	/				
High					
Voltage					
Input Low -0.7 0.0 1.3 V	/				
Voltage					
Serial Port TTL					
Mode					
Serial Port 4Pin_2.54mm					
USB NO					
interface					
SD card Yes (FAT32 format), support maximum 32G	Yes (FAT32 format), support maximum 32G				
socket Micro SD Card					
* microSD card socket is exclusively used	* 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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