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## Nextion Enhanced NX3224T024 - Generic 2.4" HMI 320\*240 Touch Display for Arduino Raspberry Pi

**SKU** 104990602

Nextion is a Human Machine Interface(HMI) solution that provides a control and visualization interface between a human and a process, machine, application, or appliance. Nextion is not just a touch display, it has a hardware part and a software part which is well developed for HMI applications.

#### **Key Features**

- Nextion TFT resistive touch display
- 2.4" with 320\*240 resolution
- Providing HMI function for external device like Arduino board or Raspberry Pi
- Including GUI development software and many API commands for GUI development

#### Description

Nextion is a Human Machine Interface(HMI) solution that provides a control and visualization interface between a human and a process, machine, application, or appliance. Nextion is not just a touch display, and it has a hardware part and a software part which is well developed for HMI applications.

Nextion(NX3224T024) display is a TFT display with a resolution of 320\*240. The touch panel for this display is resistive touch. Nextion has only one serial(TTL) for power supply or connection with peripheral devices like Arduino board or Raspberry Pi. What 's more? Nextion display has an MCU, and its frequency is up to 48MHz. With the help of 4MB flash, 3584Byte RAM, and an SD card socket, this display is embedded with a rich storage for HMI programming.

As for the software part, Nextion has rich resources. Nextion Editor is a Windows software for GUI development. There are libraries for serial communication with Arduino boards and Raspberry Pi. Moreover, a mass of API is defined for users in The Nextion Instruction Set. With these resources, I believe you will have an easy experience with this display.

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





What You See Is What You Get. Just lay the disply out with the objects and code is written automatically.



You can design without even a sreen in hand. And you can use a external MCU to control the simulate screen as well.



Free Full-Function Software. Users can use the Editor freely, full-functions without any charge.



## Hardware Overview



# Specification

Item	Value			
Color	64K 65536 colors			
Resolution	320×240 pixel			
Touch-type	Resistive			
Touches	> 1 million			
Backlight	LED			
Backlight lifetime (Average)	>30,000 Hours			
Operating Voltage	5V			
Operating Current	90mA Normal Mode, 15mA Sleeping Mode			

Power supply recommend	5V, 500mA, DC			
Serial Port Baudrate	2400(Min), 9600(Typical),115200(Max)			
Serial Port Mode	TTL			
Serial Port	4Pin_2.54mm			
USB interface	NO			
SD card socket	Yes (FAT32 format), support maximum 32G Micro SD Card			
FLASH Memory	4 MB			
RAM Memory	3584 Byte			

#### Dimension

2.4"\_Nextion\_Dimension

Part List

- Nextion NX3224T024\*1
- Power Supply Test Board\*1
- XH2.54 4P Wire\*1 Related Nextion Display

Type of Display	NX3224T02 4	NX4024T03 2	NX4832T03 5	NX4827T04 3	NX8048P07 0-011R	NX1060P10 1-011C-I
Size	2.4"	3.2"	3.5"	4.3"	7.0"	10.1"
Resolutio n	320*240	400*240	480*320	480*272	800*480	1024*600
Touch panel	RTP	RTP	RTP	RTP	RTP	СТР
Flash	4MB	4MB	16MB	16MB	128MB	128MB
RAM	3584Byte	3584Byte	3584Byte	3584Byte	512KB	512KB
MCU Frequenc y	48 MHz	48 MHz	48 MHz	48 MHz	200 MHz	200 MHz
EEPROM	-	-	-	-	1024Byte	1024Byte
GPIOS	-	-	-	-	8	8
RTC	-	-	-	-	Yes	Yes

## ECCN/HTS

HSCODE	9013803010
UPC	





https://www.seeedstudio.com/Nextion-Enhanced-NX3224T024-Generic-2-4-HMI-320-240-Touch-Display-for-Arduino-Raspberry-Pi-p-4330.html/12-9-19