

NX8048T070

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Contents

- 1 Overview
- 2 Nextion Models
- 3 Specification
- 4 Electronic Characteristics
- 5 Working Environment & Reliability Parameter
- 6 Interfaces Performance
- 7 Memory Features
- 8 Product Dimension

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 NX8048T070 (im150416007) (<http://imall.itead.cc/nextion-nx8048t070.html>)

Package includes: a Nextion 7.0" 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 on how to use it.



Caution:

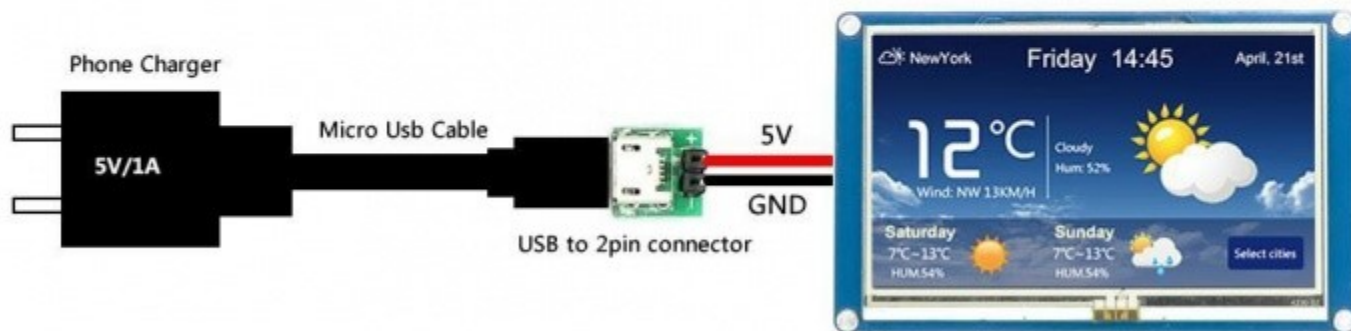
Working under insufficient power supply condition will damage the Nextion model easily.



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.

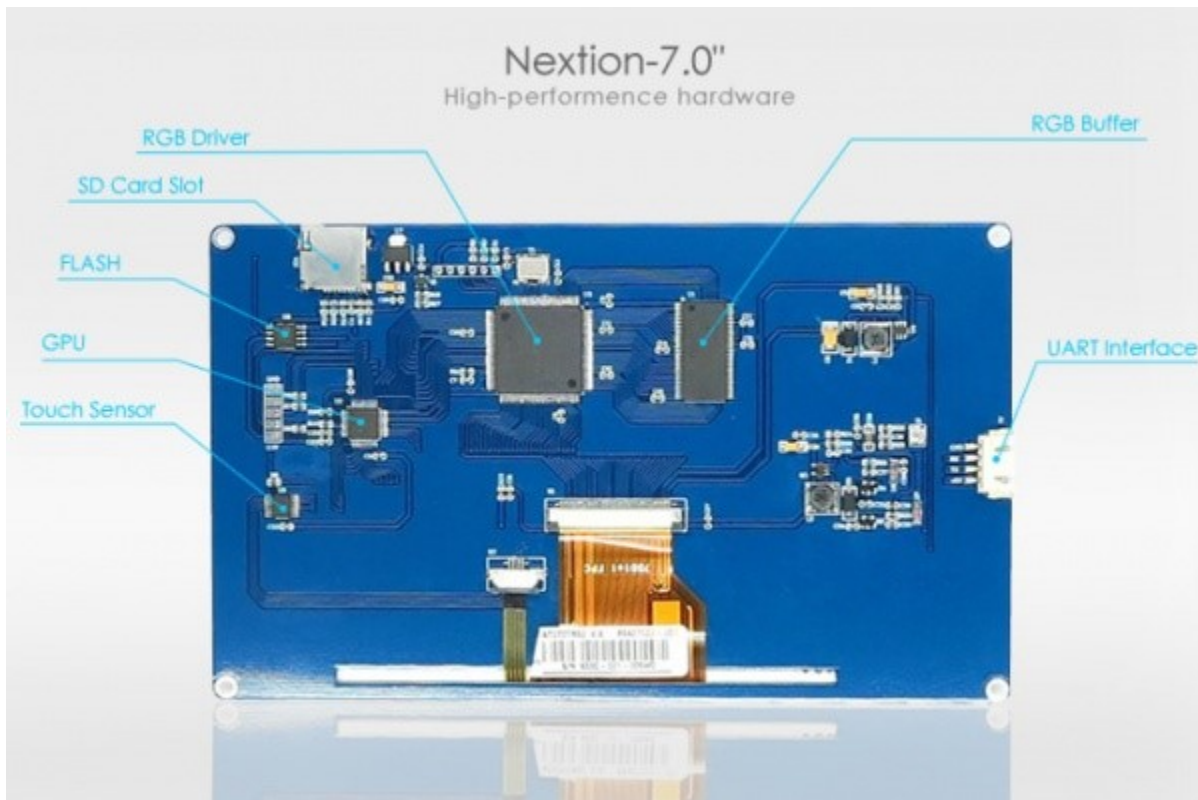
A high quality usb cable is required.



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

Nextion Models

| | |
|----------------|--|
| Nextion Type | Basic |
| Nextion Models | NX8048T070_011N (N: No touch) |
| | NX8048T070_011R (R: Resistive touchscreen) |



Specification

| | Data | Description |
|------------------------------|------------------------------------|--|
| Color | 65K (65536) colors | 16 bit, 5R6G5B |
| Layout size | 181(L)×108(W)×7.3(H) | NX8048T070_011N |
| | 181(L)×108(W)×9(H) | NX8048T070_011R |
| Active Area (A.A.) | 164.9mm(L)×100mm(W) | - |
| Visual Area (V.A.) | 154.08mm(L)×85.92mm(W) | - |
| Resolution | 800×480 pixel | Also can be set as 480×800 |
| Touch type | Resistive | - |
| Touches | > 1 million | - |
| Backlight | LED | - |
| Backlight lifetime (Average) | >30,000 Hours | - |
| Brightness | 250nit(NX8048T070_011N) | 0% to 100%, the interval of adjustment is 1% |
| | 180 nit 230nit(NX8048T070_011R) | 0% to 100%, the interval of adjustment is 1% |
| Weight | 216g (NX8048T050_011N) | - |
| | 268g (NX8048T050_011N) | - |

Electronic Characteristics

| | Test Conditions | Min | Typical | Max | Unit |
|-------------------------------------|-----------------------------|------|---------|-----|------|
| Operating Voltage | | 4.75 | 5 | 7 | V |
| Operating Current | VCC=+5V, Brightness is 100% | - | 510 | - | mA |
| | SLEEP Mode | - | 15 | - | mA |
| Power supply recommend : 5V, 2A, 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 | | | | |

Memory Features

| Memory Type | Test Conditions | Min | Typical | Max | Unit |
|--------------|------------------------|-----|---------|-----|------|
| FLASH Memory | Store fonts and images | - | - | 16 | MB |
| RAM Memory | Store variables | - | 3584 | - | BYTE |

Product Dimension

7.0 Nextion Dimension

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