



# NEXTION NX4832T035 3.5 Inch HMI TFT LCD Touch Display Module User Manual

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## NX4832T035



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## Overview

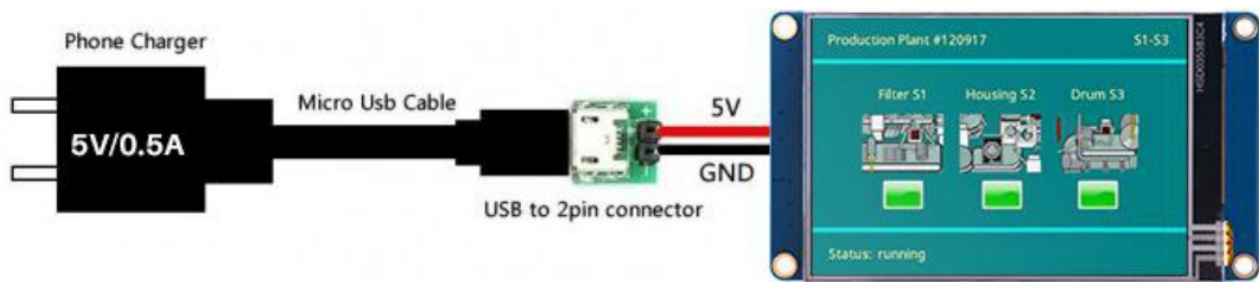
Nextion is a Seamless Human Machine Interface (HMI) solution that provides a control and visualization interface between a human and a process, machine, application or appliance. Nextion is mainly applied to IoT or consumer electronics field. It is the best solution to replace the traditional LCD and LED Nixie tubes. With the Nextion Editor

software (Official Download), users are able to create and design their own interfaces for the Nextion display. Package includes Nextion Display, connecting wire, a power supply test board. 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 conditions 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 Models | NX4832T035_011N (N: No touch)              |
|                | NX4832T035_011R (R: Resistive touchscreen) |

**Specifications**

|                              | Data                         | Description                                  |
|------------------------------|------------------------------|--|
| Color                        | 64K 65536 colors             | 16 bit 565, 5R-6G-5B                         |
| Layout size                  | 100.5 (L)x54.94 (W)x4.25 (H) | NX4832T035 011N                              |
|                              | 100.5 (L)x54.94 (W)x5.45 (H) | NX4832T035 011R                              |
| Active Area (A.A.)           | 85.50mm(L)x54.94mm(W)        |  |
| Visual Area (V.A.)           | 73.44mm(L)x48.96mm(W)        |  |
| Resolution                   | 480×320 pixel                | Also can be set as 320×480                   |
| Touch-type                   | Resistive                    |  |
| Touches                      | > 1 million                  |  |
| Backlight                    | LED                          |  |
| Backlight lifetime (Average) | >30,000 Hours                |  |
| Brightness                   | 200nit (NX4832T035_011N)     | 0% to 100%, the interval of adjustment is 1% |
|                              | 180 nit (NX4832T035_011R)    | 0% to 100%, the interval of adjustment is 1% |
| Weight                       | 38.2g (NX4832T035_011N)      |  |
|                              | 48.2g (NX4832T035_011R)      |  |

## Electronic Characteristics

|                   | Test Conditions             | Min | Typical | Max | Unit |
|-------------------|-----------------------------|-----|---------|-----|------|
| Operating Voltage |                             | 5.  | 5       | 7   | V    |
| Operating Current | VCC=+5V. Brightness is 100% | —   | 145     | —   | 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  | 10H=-1mA  | 3.0  | 3.      |        | V    |
| Output Low Voltage   | 10L=1mA   |      | 0.1     | 0.2    | V    |
| Input High Voltage   |   | 2.0  | 3.      | 5.0    | V    |
| Input Low Voltage    |   | -1.  | 0.0     | 1.     | 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 |     |         | 16   | MB   |
| RAM Memory   | Store variables        |     |         | 3584 | BYTE |



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