BOE NV133FHM-N4D - Panelook specification summary (not the manufacturer datasheet)

Kaynak: https://www.panelook.com/NV133FHM-N4D_BOE_13.3_LCM_parameter_50756.html (2026-10-31)

## BOE NV133FHM-N4D Application Details

| | | | | |
|---|---|---|---|---|
| Basic Information : | Manufacturer | 京东方 BOE | Model | NV133FHM-N4D |
| | Type | a-Si TFT-LCD, LCM | Used For | |
| | Screen Size | 13.3" | Another Name | BOE09EC |
| Environment : | Storage Temp. | -20 ~ 60 °C | Operating Temp. | 0 ~ 50 °C |
| | RoHS | RoHS | Vibration | 1.5G (14.7 m/s²) |
| Typical Features : | WLED LED Driver Reverse Matte | | | |
| Remarks : | eDP1.2 | | | |

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## BOE NV133FHM-N4D Optical Details

| | | | | |
|---|---|---|---|---|
| Basic Information : | Luminance | 250cd/m² (Typ.) | Contrast Ratio | 800:1 (Typ.) (Transmissive) |
| | Viewing Angles | 85/85/85/85 (Typ.)(CR≥10) | Display Mode | ADS, Normally Black, Transmissive |
| | View Direction | Symmetry | Response (ms) | 20 (Typ.)(Tr+Td) |
| Color Performance : | White Coordinate | X:0.313; Y:0.329 | Display Colors | 262K (6-bit) |
| | Color Temp. | 6485K | White Uniformity | 1.25 (Typ.)(5 points) |
| Display Gamut : | NTSC Ratio | 47% NTSC (CIE 1931) | sRGB | 66% coverage (CIE 1931) |
| | Adobe RGB | 50% coverage (CIE 1931) | DCI-P3 | 49% coverage (CIE 1931) |
| | Rec.2020 | 35% coverage (CIE 1931) | Low Blue Light | - |

Disclaimer : This was entered by panelook engineers based on the datasheet, but we cannot guarantee that the listed specifications are completely accurate.

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## BOE NV133FHM-N4D Mechanical Details

| | | | | |
|---|---|---|---|---|
| Pixel Features : | Resolution | 1920(RGB)×1080, FHD | Dot Pitch | 0.051×0.153 (H×V) mm |
| | Pixel Format | RGB Vertical Stripe | Pixel Pitch | 0.153×0.153 (H×V) mm [166PPI] |
| Mechanical Size : | Active Area | 293.76(H)×165.24(V) mm | Bezel Area | - |
| | Overall Size | 300.26(H)×177.47(V) mm | Overall Depth | 3.0.5.0 (Typ./Max.) mm |
| Outline Features : | Form Style | Flat Rectangle | Outline Shape | Slim (PCBA Bent, T≤3.5mm) |
| | Aspect Ratio | 16:9 (H:V) | Orientation | Landscape type |
| Mounting : | Without | | | |
| Other Spec : | Weight | 260g (Max.) | Surface Coating | Antiglare, Hard coating (3H) |

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## BOE NV133FHM-N4D Electronics Details

| | |
|---|---|
| Frame Rate : | 60Hz |
| Reverse Scan : | No |
| Total Power Cons. : | 3.05W (Max.) |

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## BOE NV133FHM-N4D Backlight Details

| | | | | | | |
|---|---|---|---|---|---|---|
| Backlight Features: | Shape | 4 strings | Type | WLED | Position | Edge light type |
| | Replacement | - | Qty | 8S4P | Life Time | 15K (Min.) hrs |
| Interface Features : | Position | - | | Type | Included in signal interface | |
| Backlight Driver : | With LED Driver | | | | | |
| Driver Electrical : | Voltage Supply | 5.0/12.0/21.0V (Min./Typ./Max.) | | Current Supply | 187.5mA (Max.) | |
| | Power Cons. | 2.25W (Max.) | | | | |
| Brightness Adjustment. : | Dimming Zone | - | | Dimming Type | - | |
| | Duty Ratio | 5~100% | | PWM freq. | Min. 200Hz ~ ~ Max. 2KHz | |

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## BOE NV133FHM-N4D Interface Details

| | | | | | | |
|---|---|---|---|---|---|---|
| Signal Electrical : | Voltage Supply | 3.3V (Typ.) | | Current Supply | 242mA (Max.) | |
| | Power Cons. | 0.8W (Max.) | | | | |
| Signal Type : | eDP (2 Lanes), eDP1.2, HBR1 (2.7G/lane) | | | Signal Voltage | - | |
| Interface Features : | Position | Rear | | Type | Connector | |
| Interface Detail : | Manufacturer | Part # | Qty | Pins | Pitch | Pin Configuration |
| | - | - | 1 pcs | 30 pins | - | EDP-30P2L-400FD |

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## BOE NV133FHM-N4D Packing Details

| Package Type | Panel Qty | Qty of Min. Package | Dimension L×W×H | Weight | Volume | Remarks |
|---|---|---|---|---|---|---|
| Carton | 21 pcs | 1 | 545×465×290 mm | 8.20 kgs | 0.0735 m³ | - |
| Pallet | 378 pcs | 18 | - | - | - | - |

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## BOE NV133FHM-N4D Specification Source

| | File Number | Version | Language | Issue Date |
|---|---|---|---|---|
| File Referenced : | - | Rev.P1 | English | 2020 - 11 - 20 |
| Spec Latest Update : | 2026-09-21 13:48 | | | |

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## BOE NV133FHM-N4D Datasheets Download

| Datasheet | Version | Language | Issue Date | File Size | Pages | Latest | |
|---|---|---|---|---|---|---|---|
| NV133FHM-N4D Datasheet | V8.0_Rev.P1 | English | 2020-11-20 | 2.5 M | 64 | Latest | Paid Download |

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## BOE NV133FHM-N4D Summary

BOE Technology Group Co., Ltd. (hereafter called BOE) NV133FHM-N4D (Product Code: BOE09EC) is a 13.3 inch diagonal a-Si TFT-LCD display screen product, with an incorporated WLED lighting system, With LED Driver, without touch screen. Based on datasheet with version of Rev.P1 which was released out on 11 20 2020, NV133FHM-N4D supports display 1920(RGB)×1080 (FHD) with aspect ratio of 16:9 (W:H), whose pixels are arranged in RGB Vertical Stripe. As for mechanical detail, it features active area of 293.76(W)×165.24(H) mm, outline size of 300.26(W)×177.47(H)×5(D) mm, with surface treament of Antiglare, Hard coating (3H), net weight of 260g (Max.), shape stype of Slim (PCBA Bent, T≤3.5mm). As a ADS, Normally Black, Transmissive LCM product, NV133FHM-N4D can provides 250 cd/m² display brightness 800:1 transimissive contrast ratio, 85/85/85/85 (Typ.)(CR≥10) (L/R/U/D) viewing angle, best view direction on Symmetry , and response time of 20 (Typ.)(Tr+Td) ms. Gray scale or the brightness of the sub-pixel is determined with a 6-bit gray scale signal for each dot, thus presenting a palette of 262K colors, also with performance of color gamut 45% (NTSC). This product adopted 8S4P WLED as it's backlight systerm which was placed as Edge light type and have a working life time of 15K hours, With LED Driver. NV133FHM-N4D utilizes eDP (2 Lanes) as it's signal inputting systerm, which connected by 30 pins Connector with power supply voltage of 3.3V (Typ.). It's typical vertical frame rate (Fv) is 60Hz. For more latest product detail of NV133FHM-N4D We strongly recommend that you should refer to datasheet listed on Panelook.com or contact with BOE or it's distributor.