

AVerMedia



**PREFERRED
SOLUTION
PROVIDER**

AVerAI NX211B Box PC

Preliminary

**NX211B Box PC supports 2x USB 3.0, 1x GbE, and 1x 4Kp60 HDMI-out
It equips NVIDIA® Jetson Xavier™ NX module**



Features

- Fully support NVIDIA® Jetson Xavier™ NX module
- 1x GbE, 2x USB 3.0, 1x 4Kp60 HDMI outputs
- 2x 2 Lane MIPI CSI-2
- 1x 4 Lane MIPI CSI-2 (optional)
- 20-pin GPIO expansion
- 1x micro-SD card slot
- Operating temperature: 0°C ~ 70°C
- Dimension: W: 91.4mm x L: 76.6mm x H: 70mm

Introduction

AVerMedia AVerAI Box PC NX211B equips NVIDIA® Jetson Xavier™ NX module and is designed for the industry applications in the environment with the high physical space concern and operation in the temperature range from 0°C to 70°C. It features the very compact dimensions of 76.6mm (L) x 91.4mm (W) x 70mm (H).

AVerAI NX211B can provide the access to a list of rich I/O functions, which includes 2x 2 Lane MIPI CSI-2, 1x 4 Lane MIPI CSI-2 MIPI Camera Input (optional item), 1x 4Kp60 HDMI output, 2x USB 3.0, 1x GbE RJ-45, 20-pins GPIO expansion, 1x Micro SD card slot, and 1x Micro-B USB 2.0 for recovery. It also comes with a single-mold PCB terminal block module for the easy power connection.

With the compact dimensions, design for reliable field installation, and the rich I/O functions, NX211B is the best cost-effective choice for AIoT edge computing in the intelligent video analytics applications of Smart Retail, Smart Camera, Smart Medical and Smart City.

Embedded Vision Solutions for NVIDIA Jetson

AVerMedia offers 3 categories of Embedded Vision Solutions for deep learning application on the edge devices, with the support of NVIDIA Jetson family, battery power, HDMI/VGA/3G-SDI/Composite video sources, and the direct technical support for developers.

- Standard and customized of Nano/Tegra/Xavier NX/AGX Xavier carrier boards
- Standard and customized Nano/Tegra/Xavier NX/AGX Xavier application-ready systems
- Software design service of Linux BSP, driver, OpenCV, VisionWorks, and cuDNN.

Why AVerMedia

- As NVIDIA® PREFERRED solution provider, AVerMedia gets the direct support from NVIDIA. We are able to offer technical support in 24 hours to help your project success.
- Support full range of NVIDIA Jetson modules, including Nano, Tegra, Xavier NX, and AGX Xavier.
- Support various video input sources from IP camera, USB camera, MIPI camera, and capture cards supporting HDMI/VGA/3G-SDI/Composite video sources.
- Provide customization services of HW, PCB, chassis, BSP, driver, and UX/UI/ID/ME design.
- Supports 65°C/149°F operating temperature in the No-Air-Flow environment for fanless system designed by using AVerCooler technologies.
- Provide flexible user-configured security to protect the SW.

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Specifications

| | |
|-------------------------------------|---|
| Model | NX211B |
| Type | Box PC |
| NVIDIA GPU SoC Module Compatibility | NVIDIA® Jetson Xavier™ NX module |
| Networking | 1x GbE RJ-45 |
| Display Output | 3840 x 2160 at 60Hz |
| Temperature | Operating temperature 0°C~70°C Storage temperature -40°C ~ 85°C Relative humidity 40 °C @ 95%, Non-Condensing |
| MIPI Camera Inputs | <ul style="list-style-type: none"> 2x 2 lane MIPI CSI-2, 15 pin FPC 1mm Pitch Connector (Compatible on NVIDIA® Jetson Nano™ Developer Kit) Optional: 1x 4 lane MIPI CSI-2, 36 pin FPC 1mm Pitch Connector |
| USB | 1x USB 2.0 Micro-B for recovery 2x USB 3.0 Type-A |
| Storage | 1x micro-SD card slot |
| GPIO Expansion | 20 pins: 2x I2C, 1x UART, 9x GPIOs |
| Input Power | 12V/5A 3.5mm Screw Terminal; 9V~19V is recommended. |
| Power Cord | US/JP/EU/UK/TW |
| Fan Module | Heat sink with fan |
| Buttons | Power and Recovery |
| RTC Battery | Support RTC battery and Battery Life Monitoring by MCU |
| PCB/Electronics Mechanical Info | W: 91.4mm x L: 76.6mm x H: 70mm (3.60" x 3.02" x 2.76") Weight: 334.2g |
| Certifications | CE, FCC |

Optional Accessories

| | |
|--|---|
| MIPI Camera | Camera Module Manufacturer: APPRO.PHO |
| | For 15 pin MIPI connector: |
| | B-04: IMX179 (8M) MIPI, 1080P (30fps) |
| | C-04: IMX290 (2M) MIPI, 1080P (30fps) |
| | C-05: IMX290 (2M) +ISP (YUV), 1080P (30fps) |
| | For 36 pin MIPI connector: |
| A-03: IMX290 (FHD) V-by-One® HS, 1080P (60fps) | |
| A-06: IMX334 (4K) V-by-One® HS x1, 4K (30fps) | |
| B-03: IMX334 (4K) MIPI, 4K (30/60fps) | |
| B-13: IMX334 (4K) +ISP(YUV) , 4K (30fps) | |

*All specifications are subject to change without prior notice.



Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

US

sales@assured-systems.com

Sales: +1 347 719 4508
Support: +1 347 719 4508

1309 Coffeen Ave
Ste 1200
Sheridan
WY 82801
USA

EMEA

sales@assured-systems.com

Sales: +44 (0)1785 879 050
Support: +44 (0)1785 879 050

Unit A5 Douglas Park
Stone Business Park
Stone
ST15 0YJ
United Kingdom

VAT Number: 120 9546 28
Business Registration Number: 07699660