AVerAI NX211B Box PC

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

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 $60°C$. It features the very compact dimensions of 91.4mm (W) x 76.6mm (L) 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 (internal), 1x 4Kp60 HDMI output, 2x USB 3.0, 1x GbE RJ-45, 20-pins expansion header (internal), 1x Micro SD card slot, and 1x Micro-B USB 2.0 for recovery.

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.

Features

- Embedded NVIDIA® Jetson Xavier™ NX module
- 1x GbE, 2x USB 3.0, 1x 4Kp60 HDMI outputs
- 1x micro-SD card slot
- Operating temperature: $0°C$ ~ $60°C$
- Dimension: W: 91.4mm x L: 76.6mm x H: 70mm

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® ELITE partner, 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 $60°C/140°F$ operating temperature for fanless system.
- 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~60°C Storage temperature -40°C ~ 85°C Relative humidity 40 °C @ 95%, Non-Condensing
MIPI Camera Inputs (Internal)	· 2x 2 lane MIPI CSI-2, 15 pin FPC 1mm Pitch Connector (Compatible on NVIDIA® Jetson Xavier™ NX Developer Kit) · 1x 4 lane MIPI CSI-2, 36 pin FPC 0.5mm Pitch Connector
USB	1x USB 2.0 Micro-B for recovery 2x USB 3.0 Type-A
Storage	1x micro-SD card slot
Expansion Header (Internal)	20 pins: 2x I2C, 1x UART, 9x GPIOs
Input Power	12V/5A 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: 480g
Certifications	CE, FCC

Optional Accessories

MIPI Camera	For 15 pin MIPI connector: raspberry pi camera v2 Manufacturer: APPRO.PHO
	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: Manufacturer: APPRO.PHO
	B-03: IMX334 (4K) MIPI, 4K (30fps) A-06: IMX334 (4K) V-by-One® HS x1, 4K (30fps)

*All specifications are subject to change without prior notice.