# AVerAI NX213B Box PC

**NX213B Box PC provides 1x GbE and 8x 10/100 MbE with PoE (PSE)**
**It equips NVIDIA® Jetson Xavier™ NX module**



## Features

- Embedded NVIDIA® Jetson Xavier™ NX module
- 8x 10/100 MbE with PoE
- 1x GbE, 2x USB 3.0, 1x 4Kp60 HDMI output
- 20 pins with 1x UART, 2x I2C, 9x GPIOs
- 1x RS-485 (3 pins), 1x Micro-B USB 2.0 for recovery
- 1x mPCIe (Host Interface: USB 2.0)
- Operating temperature: 0˚C ~ 60˚C (without HDD)
- Dimension: W:190mm x L:175mm x H:80mm (W:225 mm with mounting ears)

## Introduction

AVerMedia's AVerAI NX213B Box PC of NVIDIA® Jetson Xavier™ NX is designed as an A.I. NVR (Network Video Recorder) for intelligent surveillance system.

This product provides 8-channel PoE (PSE) ports for IP cameras, a SATA port for storage including 2.5"/3.5" HDD, 1x mPCIe, 2x USB 3.0 , 1x microphone input, 1x speaker output, 1x RS-485 and 20-pin expansion header (I2C, SPI, UART, I2S), 1x HDMI 2.0 out. NX213B can operate in the temperature range from 0˚C ~ 60˚C (without HDD).

Benefiting from the Jetson Xavier™ NX and DeepStream SDK, it can simultaneously decode and analyze 8-channel 1080p60 IP camera videos.

AVerAI NX213B Box PC is designed as an application ready platform for multiple applications to improve the performance, flexibility and time to market. With NX213B, software developers not only can deploy their deep learning software on this system but also can market their software in a Box PC as a complete solution. This can greatly help simplify the efforts and processes of the system integration in launching their A.I. solution into the market faster.

## 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.

# AVerAI NX213B Box PC

## NX213B Box PC provides 1x GbE and 8x 10/100 MbE with PoE (PSE)
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## Specifications

| | |
|---|---|
| Model | NX213B |
| Type | Box PC |
| NVIDIA GPU SoC Module Compatibility | NVIDIA® Jetson Xavier™ NX module |
| Networking | 1x GbE RJ-45<br>8x 10/100 MbE RJ-45 with PoE<br>(Max for the first 4 ports is 15.4W and total power budget is 100W) |
| Display Output | 1x HDMI 2.0a/b Type-A supports maximum resolution 3840x2160 at 60Hz |
| Temperature | Operating Temperature 0°C ~ 60°C<br>Storage Temperature -40°C ~ 85°C<br>Relative Humidity 40 °C @ 95%, Non-Condensing |
| USB | 1x USB 2.0 Micro-B for recovery<br>2x USB 3.0 Type-A (USB 3.2 Gen1 x 1) |
| Storage | 16GB e.MMC v5.1 |
| Expansion Header | 1x 3.3V UART, 2x I2C, 9x GPIOs |
| Input Power | 54V/2.78A |
| Buttons | Power and Recovery Button (Power button with green LED) |
| RTC Battery | Support RTC battery and Battery Life Monitoring by MCU |
| Chassis Dimension/ Weight | W:190mm x L:175mm x H:80mm (W:225mm with mounting ears)<br>Weight: 4 Kg |
| Certifications | CE, FCC |

*All specifications are subject to change without prior notice.

RoHS 2 COMPLIANT

AVerMedia

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