

## AVerAI NX215B/TN115B/NO115B Box PC

NX215B/ TN115B/ NO115B Box PC supports 3x USB 3.0, 2x GbE, and 2x 4Kp60 HDMI-out  
It equips NVIDIA® Jetson Xavier™ NX/ TX2 NX/ NANO module



### Features

- Embedded NVIDIA® Jetson Xavier™ NX/ TX2 NX /NANO
- 2x GbE, 3x USB 3.0, 2x 4Kp60 HDMI outputs
- 1x micro-SD card slot
- Operating temperature: 0°C ~ 60°C (TBD, based on module)
- Dimension: W: 126mm x L: 96mm x H: 74mm (TBD)

### Introduction

AVerMedia AVerAI Box PC NX215B/ TN115B/ NO115B equips NVIDIA® Jetson Xavier™ NX/TX2 NX/NANO module and are 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 W: 126mm x L: 96mm x H: 74mm (TBD)

AVerAI NX215B/ TN115B/ NO115B 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), 2x 4Kp60 HDMI output, 3x USB 3.0 (1xinternal), 2x GbE RJ-45, 20-pins expansion header, 1x Micro SD card slot, and 1x Micro-B USB 2.0 for recovery, 2xM.2. for wifi and SSD (NO115B don't support M.2 2230).

With the compact dimensions, design for reliable field installation, and the rich I/O functions, NX215B/ TN115B/ NO115B are 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/TX2NX/Tegra/Xavier NX/AGX Xavier carrier boards
- Standard and customized Nano/Tegra/TX2NX/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, TX2 NX, 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 NX215B/ TN115B/ NO115B Box PC

NX215B/ TN115B/ NO115B Box PC supports 2x USB 3.0, 1x GbE, and 1x 4Kp60 HDMI-out  
It equips NVIDIA® Xavier™ NX/NANO/TX2 NX module

## Specifications

Model	NX215B	TN115B	NO115B
Type	Box PC		
NVIDIA GPU SoC Module Compatibility	NVIDIA® Jetson Xavier™ NX module	NVIDIA® Jetson TX2 NX module	NVIDIA® Jetson NANO module
Networking	2x GbE RJ-45 1xM.2. key E 2230 for wifi		2x GbE RJ-45
Display Output	2x HDMI 2.0 (3840 x 2160 at 60Hz)		1x HDMI 2.0 (3840 x 2160 at 60Hz)
Temperature	Operating temperature 0°C~60°C (TBD, based on module) 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 3x USB 3.0 Type-A (1xinternal)		
Storage	1x micro-SD card slot 1xM.2. key M 2280 for SSD		
Expansion Header (Internal)	20 pins: 2x I2C, 1x UART, 4x GPIOs, 2xCAN (EU terminal block)		
Input Power	DCINJACK on board & ATX 4pin 12V/5A, 9V~19V is recommended.		
Power Cord	US/JP/EU/UK/TW		
Fan Module	Fanless solution		
Buttons	Power and Recovery		
RTC Battery	Support RTC battery and Battery Life Monitoring by MCU		
PCB/Electronics Mechanical Info	W: 126mm (W) x 96mm (L) x 74mm (H) Weight: 1kg TBD		
Certifications	CE, FCC		
BSP	4.6 for Xavier NX ready in July/2021 4.6 for NANO/TX2 NX ready in Aug/2021		

## Optional Accessories

MIPI Camera	<p>For 15 pin MIPI connector:</p> <ol style="list-style-type: none"><li>1. raspberry pi camera v2</li><li>2. Manufacturer: APPRO.PHO<ul style="list-style-type: none"><li>▪ B-04: IMX179 (8M) MIPI, 1080P (30fps)</li><li>▪ C-04: IMX290 (2M) MIPI, 1080P (30fps)</li><li>▪ C-05: IMX290 (2M) +ISP (YUV), 1080P (30fps)</li></ul></li></ol> <p>For 36 pin MIPI connector:</p> <ol style="list-style-type: none"><li>1. Manufacturer: APPRO.PHO<ul style="list-style-type: none"><li>▪ B-03: IMX334 (4K) MIPI, 4K (30fps)</li><li>▪ A-06: IMX334 (4K) V-by-One® HS x1, 4K (30fps)</li></ul></li></ol>
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\*All specifications are subject to change without prior notice.

