

D115SOXB BOX PC [Preliminary]

- Applies to NVIDIA® Jetson Orin™ NX series
- Support Super Mode
- For Smart Traffic, Smart Security and Smart City Applications

Overview

AVerMedia’s AI Box PC D115SOXB equips powerful NVIDIA® Jetson Orin™ NX super/Orin™ NX normal modules. This efficient system-on-module (SoM) opens new worlds of embedded IoT applications with full analytic capabilities.

D115SOXB is designed for the industry applications with spatial concern and feature a rich assortment of I/O ports for rapid AI-based solution development and seamless deployment as required by demanding business applications.

AVerMedia supports businesses of all sizes and offers customizable BSP services, flexible MOQ, in addition to NVIDIA’s JetPack™ SDK.

Enterprise-Leading Features

- Embedded NVIDIA® Jetson Orin™ NX
- Supports super mode
- 2 x M.2. for WIFI and SSD
- 2 x GbE RJ-45 (Optional: Ethernet 1 supports PoE ; Ethernet 2 can be used for OOB management via NC-SI)
- OOB for Power cycling and Cloud serial console (Optional)
- 1 x 5G daughter board for 4G/5G card functions (Optional)
- 1 x HDMI output
- 20-pin expansion header
- Dimension: W: 126mm x L: 96mm x H: 74mm

The AVerMedia Advantage



Video Processing Technology



Flexibility & Reliability



Dedicated After-Sales Support

AVerMedia understands that each business has a unique set of requirements that requires professional expertise and support. With AVerMedia, you are guaranteed to work with a proven global leader in video processing technology (200+ video capturing & streaming patents) with decades of experience processing multiple video signals for countless award-winning products.

A global leader that supports businesses of all sizes with comprehensive customization services (i.e., HW/PCB/BSP/etc.), flexible MOQ while ensuring a high-quality design and stable product. And for projects requiring additional security, we can provide customizable encryption hardware to support your privacy needs.

By partnering with us, a dedicated NVIDIA® ELITE Partner, our support-driven team offers prompt after-sales support so that your company stays focused on what matters most, customer acquisition.

Specifications

Model	D115SOXB-16G/D115SOXB-8G
Type	Box PC
NVIDIA Module Compatibility	NVIDIA® Jetson Orin™ NX super/Orin™ NX normal modules
Networking	2x GbE RJ-45 (Optional: Ethernet 1 supports PoE* ; Ethernet 2 can be used for OOB management via NC-SI**) 1x M.2. key E 2230 for wifi
Display Output	1 x HDMI output 3840 x 2160 at 60Hz for Orin NX
Temperature	Operating temperature -25°C~40°C (for Orin NX super mode), -25°C~60°C (for Orin NX normal mode) Storage temperature -40°C ~ 85°C Relative humidity 40°C @ 95%, Non-Condensing
MIPI Camera Inputs (Internal)	2x 4 lane MIPI CSI-2, 22-pin FPC 0.5mm Pitch Connector
USB	1x USB 2.0 type C for recovery 2x USB 3.2 Type-A (Native 10Gbps per port)
Storage	1x M.2. key M 2280 for NVMe (256G SSD installed in box PC)
Expansion Header	20-pin: 2x I2C, 2x UART, 4x GPIOs, 1x CAN (EU terminal block)*** 15-pin & 10-pin: Supports OOB management via OOB module (optional, sold separately) 40-pin wafer: Supports 4G/5G card functions via daughter board (optional, sold separately)
Security	TPM 2.0 supported
Power requirement	DC in JACK on board & ATX 4-pin 12V/5A, 12V~24V is recommended.
Power Cord	US/JP/EU/UK/TW/AU/CN
Thermal Solution	Fanless solution
Buttons	Power and Recovery
RTC Battery	Support RTC battery and Battery Life Monitoring by MCU
PCB/Electronics Mechanical Info	Operating temperature -25°C~40°C; 126mm x 96mm x 73.9mm(4.96"x 3.78"x 2.91") (TBD); Weight: 1kg (TBD) (for Orin NX super mode) Operating temperature -25°C~60°C; 190mm (W) x 200mm (L) x 80mm (H) (TBD); Weight: 2kg (TBD) (for Orin NX normal mode)
Certifications	CE, FCC, KC
Package	1x Box PC (256G SSD installed) 1x Adapter and Power cable

* For details, please refer to the "[Accessory-PoE Board](#)" webpage.

** For details, please refer to the "[Accessory-OOB module](#)" webpage. Ethernet 2 supports NC-SI for enabling Allxon OOB and In-Band functions simultaneously.

***When equipped with the OOB module, 2x UART will be unavailable.



*All specifications are subject to change without prior notice.

Optional Accessories

MIPI Camera	<p>For 22-pin MIPI connector:</p> <ol style="list-style-type: none"> Raspberry pi imx219 & imx477 (V2) Manufacturer: APPRO.PHO <ul style="list-style-type: none"> B-04: IMX179 (8M) MIPI, 1080P (30fps)
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Ordering Information

Model	SKU Number	NVIDIA SOM	SSD	POE function (PSE)	OOB Module	Mechanical Info and weight
D115SOXB	D115SOXB - 16G-001	Orin NX 16G	256G	-	-	<ul style="list-style-type: none"> W: 190mm x L: 175mm x H: 80mm (TBD) Weight: 2kg (TBD)

*With the optional OOB module, the default configuration uses Ethernet 2 on the D115W for OOB management, rendering the OOB-Ethernet on the OOB module inactive. Alternatively, we offer another option that allows users to manage via the Ethernet on the OOB module, changing the box PC configuration from 2 RJ45 ports to a total of 3 RJ45 ports, including the RJ45 on the OOB module.



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