D135 [Preliminary]

NVIDIA® Jetson Orin NX module

IP65/67 Vehicle System

Overview

AVerMedia's AI Box PC **D135** equips powerful NVIDIA® Jetson Orin NX module. This efficient system-on-module (SoM) opens new worlds of embedded IoT applications with full analytic capabilities.

D135 BOX PC is designed for the IP65/IP67 Vehicle System applications and feature a rich assortment of waterproof I/O ports for rapid AI-based solution development and seamless deployment as required by demanding vehicle applications.

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

Enterprise-Leading Features

- IP65/67 BOX PC
- Quad Fan & Dual Fan & Fanless Product type
- 2x M12 X-Code for GbE with PoE 802.3af
- 1x M12 A-Code (Isolated CAN BUS 2.0 Port With Transceiver, 2 port)
- 2x M20 USB 3.0(Type A)
- 1x M12 A-Code 12pin (4x GPI & 2x GPO & 1x RS485)
- 1x M12 B-Code 5pin Power Input
- Operating Temperature: -40~80°C (base on SKU)
- Optional: Allxon OOB

Waterproof (Must choose at least one from GMSL2 or PoE)

- Optional: 8x GMSL2 (FAKRA SMB Plug Z-code)
- Optional: 4x PoE (M12 X-Code 8pin, with PoE 802.3af)
- Optional: 5x connectors FAKRA for WIFI 6/4G/5G/GPS

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.

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Specifications

Model	D135OXQ (4 fans) D135OXD (2 fans) D135OXB (fanless)
Type	IP65/67 Box PC
NVIDIA GPU SoC Module Compatibility	NVIDIA® Jetson Orin NX
Indication	Status LED R/G/B
External I/O (waterproof)	2x M12 X-Code for GbE with PoE 802.3af
	8x GMSL2 (FAKRA SMB Plug Z-code) (Optional)
	4x PoE (M12 X-Code 8pin, with PoE 802.3af) (Optional)
	1x M12 A-Code (Isolated CAN BUS 2.0 Port With Transceiver, 2 port)
	2x M20 USB 3.0(Type A)
	1x M12 A-Code 12pin (4x GPI & 2x GPO & 1x RS485)
	1x M12 B-Code 5pin Power Input
Internal Slot	1x M.2 M key 2280 (256G SSD pre-install) 1x M.2 E key 2230 (WIFI) 1x M.2 B key 3042(4G) LTE module or 3052(5G) module ANT0/1/2 for 5G , ANT3 for 5G or GNSS 1x half mPCIe (IMU/GPS)
Repair Area with an Access Panel with O ring for waterproof	1x Recovery mode push button 1x DIP switch for CAN terminal selection 1x USB 3.1 Type-A port 1x GbE RJ45 port 1x HDMI type A port (4Kp60) 1x USB-C (BSP flash) 1x USB-C UART port (Debug) 2x Nano SIM card slot (4G/LTE/5G)
Misc (Optional)	Accelerometer , IMU 6-Axis motion tracking Super CAP(Optional)
OOB(Optional)	Allxon OOB
Storage temperature	-40°C ~ 85°C
Relative humidity	40 °C @ 95%, Non-Condensing
Power requirement	12V/5A,DC Input Range 9V~36V is recommended (M12 B-Code 5 pin)
Power Cord	US/JP/EU/UK/TW/AU/CN
RTC Battery	Support RTC battery and Battery Life Monitoring by MCU
Verification	MIL810G for vibration (TBA) IP67 (TBA)
Mechanical Info	W: 300mm * L: 153mm* H: 103mm(T.B.D) Weight: 4Kg (T.B.D, BOX PC)
Certifications	CE, FCC, KC (TBA)

Optional Accessories

Wi-Fi Module	M.2 E key 2230	Intel® Wireless-AC 9260 、 Intel® Wi-Fi 6E AX210
4G LTE Cat4	M.2 B key 3042	Quectel EM05-G
5G	M.2 B key 3052	Quectel RM520N-GL

RoHS 2 COMPLIANT

*All specifications are subject to change without prior notice.

AVerMedia