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D135 [Preliminary]

NVIDIA® Jetson Orin NX/Orin Nano

IP65/67 Vehicle System



Enterprise-Leading Features

AVerMedia's AI Box PC D135 equips powerful NVIDIA® Jetson Orin NX/Orin Nano 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
- Dual Fan & Fanless Product type
- Either 8x GMSL2 (Z-code) or 4x M12 (X-Code) PoE 802.3af
- 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°C ~ 80°C (Base on SKU)
- Optional RF: 5x connectors FAKRA for WIFI 6/4G/5G/GPS
- Optional IP67/69K Camera: oToBrite 2.5M camera series
- Optional: Support Allxon 24/7 Edge AI device remote management with OOB disaster recovery solutions



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	D135OXD (2 fans)、D135OXB (fanless)
Type	IP65/67 Box PC
NVIDIA GPU SoC Module Compatibility	NVIDIA® Jetson Orin NX/Orin Nano
Indication	Single LED Green
External I/O (waterproof)	Either 8x GMSL2 (Z-code) or 4x M12 (X-Code) PoE 802.3af
	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)
Internal Slot	1x M12 B-Code 5pin Power Input
	1x M.2 M key 2280 (256GB SSD pre-installed)
	1x M.2 E key 2230 (WIFI, optional)
	1x M.2 B key 3042(4G) LTE module or 3052(5G) module (optional)
	ANT0/1/2 for 5G , ANT3 for 5G or GNSS (optional)
Repair Area with an Access Panel with O ring for waterproof	1x Dual RTK (mPCIe slot) (optional)
	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)	
Misc (Optional)	2x Nano SIM card slot (4G/LTE/5G)
	Accelerometer , IMU 6-Axis motion tracking
OOB (Optional)	Allxon OOB
Super CAP	Super CAP
Operating Temperature	-40°C ~ 80°C (Base on SKU)
Storage Temperature	-40°C ~ 85°C
Relative humidity	40 °C @ 95%, Non-Condensing
Power requirement	12V/5A, DC Input Range 9-36V DC input with Power Ignition Controller
Power Cord	US/JP/EU/UK/TW/AU/CN
RTC Battery	Support RTC battery and Battery Life Monitoring by MCU
Verification	MIL-STD-810H for vibration (TBC)
Mechanical Info	W: 300mm * L: 153mm* H: 103mm (TBC)
	Weight: 4.3Kg (TBC, BOX PC)
Certifications	CE, FCC, KC (TBC)

Optional Accessories

*All specifications are subject to change without prior notice.

IP67/69K Camera	GMSL2	oToCAM222-H61M、oToCAM222-C120M、oToCAM222-S195M
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



Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

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