

D1350XB

NVIDIA® Jetson Orin NX 16G

IP65 BOX PC (IP67 by request)

Overview

AVerMedia's AI Box PC D135 equips powerful NVIDIA® Jetson Orin NX 16G 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 by request) applications and feature a rich assortment of waterproof I/O ports for rapid AI-based solution development and seamless deployment as required by demanding applications.

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

The AVerMedia Advantage



Video Processing Technology

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.



Enterprise-Leading Features

- IP65 BOX PC (IP67 by request)
- 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, Engineering Port)
- 2x M20 USB 5Gbps (Type A)
- 1x M12 A-Code 12pin (4x GPI & 2x GPO & 1x RS485, Engineering Port)
- 1x M12 B-Code 5pin Power Input
- 1x Vent Plug
- Operating Temperature:
 - 40°C ~ 70°C for 8x GMSL + 2x POE
 - 40°C ~ 60°C for 6x POE
- Optional Antenna: 6x FAKRA for WIFI 6/4G/5G/GPS
- Optional IP67/69K Camera: oToBrite 2.5M camera series
- Optional: Support 24/7 Edge AI device remote management with OOB disaster recovery solutions (NCSI)



Flexibility & Reliability



Dedicated After-Sales Support

Specifications

Model	D135OXB
Type	IP65 Box PC (IP67 by request)
NVIDIA GPU SoC Module Compatibility	NVIDIA® Jetson Orin NX 16G
Indication	2x Single LED
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, Engineering Port)
	2x M20 USB 5Gbps (Type A)
	1x M12 A-Code 12pin (4x GPI & 2x GPO & 1x RS485, Engineering Port)
	1x M12 B-Code 5pin Power Input
	6x ANT (2 for 4G/5G, 2 for Wi-Fi, 2 for GNSS, Antenna is optional)
	1x Vent Plug (Pressure Equalization/Liquid Protection/Condensation Prevention/Gas Venting/Dust Protection)
Internal Slot	1x M.2 M key 2280 (256GB NVMe SSD pre-installed) (*The SSD capacity for the 6x POE SKU is limited to a maximum of 2TB) 1x M.2 E key 2230 (WIFI, optional) 1x M.2 B key 3042(4G) LTE module or 3052(5G) module (optional) 1x mPCIe slot (optional for GNSS or GNSS RTK module)
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 Micro SIM card slot (4G/LTE/5G), Only support in Dual SIM Single Standby (DSSS) mode, the limitation is from EM05(4G)
Out-of-Band (Optional)	AVerMedia OOB API & Solution (NCSI)
Super Capacitor	Super Capacitor (400W/sec)
Operating Temperature	-40°C ~ 70°C (8x GMSL + 2x POE) -40°C ~ 60°C (6x POE) (*The system requires approximately at least 10 minutes of warmup time when operating at an ambient temperature of -40°C before it can be powered on.)
Storage Temperature	-40°C ~ 85°C
Relative humidity	40 °C @ 95%, Non-Condensing
Power requirement	DC Input Range 9-36V DC input with Power Ignition Controller
RTC Battery	Support RTC battery and Battery Life Monitoring by MCU
Verification	MIL-STD-810H for shock & vibration
Mechanical Info	W: 300mm * L: 153mm* H: 103mm, Weight: 4.9Kg
Certifications	CE, FCC, KC
Package	1x D135OXB (256G SSD pre-installed)
Adaptor/Power Cord	N/A

*All specifications are subject to change without prior notice.

*Camera, Module, Antennas and Accessories are not included in the shipment. End customers can purchase and install them separately.



Optional Accessories

IP67/69K Camera	GMSL2	oToBrite: oToCAM222-H61M 、oToCAM222-C120M 、oToCAM222-S195M 、 oToCAM223-H61M 、oToCAM223-C120M 、oToCAM223-S195M
Wi-Fi Module	M.2 E key 2230	Intel® Wi-Fi 6E AX210 (-40°C ~ 85°C)
4G LTE Cat4	M.2 B key 3042	Quectel EM05-G (-40°C ~ 85°C)
5G	M.2 B key 3052	Quectel RM520N-GL (-40°C ~ 85°C)
RTK GPS module	mPCIe / USB wafer	ublox F9P (-40°C ~ 85°C)
RTK GPS module	mPCIe / USB wafer	ublox F9P+F9H (-40°C ~ 85°C)
RTK GPS module	mPCIe / USB wafer	ublox NEO-M8N-0-12 (-40°C ~ 85°C)
5 in 1 Combo External Antenna	FAKRA	IP67 Supports 4G/5G + Wi-Fi + Single GNSS (-40°C ~ 85°C) , 3m(300cm)
GNSS External Antenna	FAKRA	IP67 Single GNSS Antenna with magnet (C-Code) (-40°C ~ 85°C) , 3m(300cm)
4G/5G External Antenna	FAKRA	IP67 Single 4G/5G Antenna (D-Code) (-40°C ~ 85°C) , 3m(300cm)
OOB module (NCSI)	wafer	OOB BOARD Module + Cable (-40°C ~ 85°C, TBD)
Adapter	DC JACK	FSP 12V/5A for 8x GMSL + 2x POE (For PoC only)
Adapter	DC JACK	FSP 12V/12.5A for 6x POE (For PoC only)
M12 Power Cable	M12 5 pin to DC JACK	M12 5 pin to DC JACK B-Code male (POWER), 1m(100cm)
M12 POE to RJ45 Cable	M12 8 pin to RJ45	M12 8 pin X-Code POE to RJ45 Cable, 1m(100cm)

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