AVerMedia

NVIDIA. PREFERRED SOLUTION PROVIDER

AVerAI EX731-AA00 Box PC

EX731-AA00-1AC0 Box PC

It equips NVIDIA® Jetson™ TX1 with active cooling system without Wi-Fi/BT



Description

AVerMedia's EX731-AA00-1AC0 Box PC equips NVIDIA® Jetson™ TX1 to provide a compact design with dimension W: 117.2mm x L: 76.8mm x H: 61.0mm (4.61" x 3.02" x 2.4" with mounting ears W: 144.8mm, 5.7")

The AVerMedia's EX731-AA00-1AC0 design includes 1x HDMI-out, 1x USB 3.0, 1x Gigabit Ethernet RJ-45, 1x USB OTG, 1x micro SD card slot and 40 pins of GPIO expansion with 1x 3.3V UART, 1x I2C, and 7x GPIOs.

This Box PC is able to equip a customized chassis with active cooling system. It is one of the best compact Application Ready System by supporting NVIDIA® Jetson™ TX1 for you to run your edge computing algorithms for high-end video analysis application markets.

Features

- Fully support NVIDIA® Jetson™ TX1
- 1x USB3.0 and 1x Gigabit Ethernet RJ-45
- 1x HDMI-out
- Chassis dimension: W: 117.2mm x L: 76.8mm x H: 61.0mm (4.61" x 3.02" x 2.4" with mounting ears W: 144.8mm, 5.7")

Embedded Vision Solutions for NVIDIA Jetson

AVerMedia offers 5 categories of Embedded Vision Solutions for deep learning application on the edge devices, with the support of battery power and HDMI/VGA/3G-SDI/Composite video sources and the direct technical support for developers.

- Standard and customized TK1 modules and carrier boards
- Standard and customized TX1/TX2/TX2i/AGX Xavier/Nano carrier boards
- Standard and customized TK1 single boards
- Standard and customized TK1 and TX1/TX2/TX2i/AGX Xavier/Nano application-ready systems
- Software design service of Linux BSP, driver, OpenCV, VisionWorks, and cuDNN.

Why AVerMedia

- Innovative, patented passive cooling thermal designs for No-Air-Flow environment: AVerCooler, WaveFin, and Surfax.
- Full customization ability with our in-house HW and SW development teams.
- Timely support from NVIDIA® as we are a NVIDIA® Jetson Preferred Partner.
- Stable supply as we are a financially sound company.

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Specifications

Type	Box PC with Active Cooling System
NVIDIA GPU SoC Module Compatibility	NVIDIA® Jetson™ TX1
Networking	1x GbE (RJ-45)
Display Output	TX1: 1x HDMI Type A, 4096 x 2160 at 60Hz
Temperature	Operating temperature 0°C ~40°C Storage temperature -40°C ~ 85°C Relative humidity 40 °C @ 95%, non-condensing
USB	1x external USB3.0 Type A (USB 3.2 Gen1x 1)
Storage	1x micro-SD card 1x SATA 3Gb/s (on daughter board)
GPIO Expansion	1x 3.3V UART, 1x I2C, 7x GPIOs
CAN Bus	N/A
RS-485	1x RS-485
User Expansion	N/A
Input Power	12V/5A
Buttons	Power and Recovery (Each button has a RGB tri-color LED)
RTC Battery	Support RTC battery and Battery Life Monitoring by MCU
Chassis Dimension/ Weight	W: 117.2mm x L: 76.8mm x H: 61.0mm 4.61" x 3.02" x 2.4" with mounting ears W: 144.8mm, 5.7" Weight: 485g
Certifications	CE, FCC

Order Information

Standard Product	Product Name	M.2/mPCIe Video Input	NVIDIA Jetson SoM	Cooling System	Wireless
●	EX731-AA00-1AC0	N/A	TX1	Active Cooling	N/A
	EX731-AA00-2AC0	N/A	TX2	Active Cooling	N/A
	EX731-AA00-3AC0	N/A	TX2i	Active Cooling	N/A
	EX731-AA00-4AC0	N/A	TX2 4GB	Active Cooling	N/A
	EX731-AA00-1ACW	N/A	TX1	Active Cooling	Wi-Fi/BT
	EX731-AA00-2ACW	N/A	TX2	Active Cooling	Wi-Fi/BT
	EX731-AA00-3ACW	N/A	TX2i	Active Cooling	Wi-Fi/BT
	EX731-AA00-4ACW	N/A	TX2 4GB	Active Cooling	Wi-Fi/BT

* All specifications are subject to change without prior notice.

RoHS 2 COMPLIANT

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