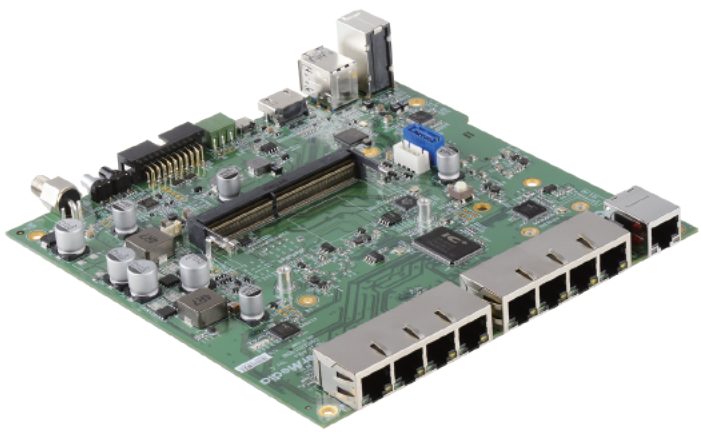
AVerMedia

NVIDIA PREFERRED SOLUTION PROVIDER

AVerAI EN713-AAE9 Carrier Board

EN713-AAE9-0000 carrier board provides 1x GbE and 8x 10/100 MbE with PoE (PSE)
It fully supports NVIDIA®Jetson Nano™



Description

AVerMedia's AVerAI EN713-AAE9-0000 carrier board of NVIDIA®Jetson Nano™ is designed as an A.I. NVR (Network Video Recorder) for intelligent surveillance system.

This product provides 8-channel PoE (PSE) ports for IP cameras, a SATA port for storage, 1x mPCIe , 2x USB 3.0 , 1x microphone-in, 1x speaker-out, 1x RS-485 and 20-pin GPIO expansion header (1x UART, 1x I2C, 5x GPIO), and 1x HDMI 2.0 out.

Benefiting from the Jetson Nano™ and Astro SDK, it can simultaneously decode and analyze 8-channel 1080p30 IP camera video inputs.

AVerAI EN713-AAE9-0000 carrier board is designed as an application ready platform for multiple applications to improve the performance, flexibility and time to market. With EN713-AAE9-0000, software developers not only can deploy their deep learning software on this system but also can market their software on this carrier board as a complete solution. This can greatly help simplify the efforts and processes of the system integration in launching their A.I. solution into the market faster.

Features

- Fully supports NVIDIA®Jetson Nano™
- 8x 10/100 MbE with PoE
- 1x GbE, 2x USB 3.0, 1x 4Kp60 HDMI-out
- 20-pin with 1x UART, 2x I2C, 5x GPIO
- 1x RS-485 (3 pins) and 1x Micro-B USB 2.0 for recovery only
- 1x mPCIe (USB 2.0 for LTE module)
- Operating temperature: 0°C~70°C

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	Carrier Board
NVIDIA GPU SoC Module Compatibility	NVIDIA®Jetson Nano™
Networking	1x GbE RJ-45 8x 10/100 MbE RJ-45 with PoE (PSE) The first two ports support 802.3 AT 30W and total power budget is 80W
Display Output	1x HDMI 2.0a/b Type-A supports maximum resolution 3840x2160 at 60Hz
Temperature	Operating temperature 0°C~70°C Storage temperature -40°C ~ 85°C Relative humidity 40 °C @ 95%, Non-Condensing
USB	1x USB 2.0 Micro-B for recovery only 2x USB 3.0 Type-A (USB 3.2 Gen1 x 1)
Storage	16GB e.MMC v5.1
GPIO Expansion	1x 3.3V UART, 2x I2C, 5x GPIOs
User Expansion	1x mPCIe (Host Interface: USB 2.0)
Input Power	54V/2.78A
Buttons	Power and Recovery (Each button has a RGB tri-color LED)
RTC Battery	Support RTC battery and Battery Life Monitoring by MCU
Certifications Dimension/ Weight	W: 170mm x L: 170mm x H: 41.0mm (6.69" x 6.69" x 1.61") Weight:235.8g

*All specifications are subject to change without prior notice.

RoHS 2 COMPLIANT

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