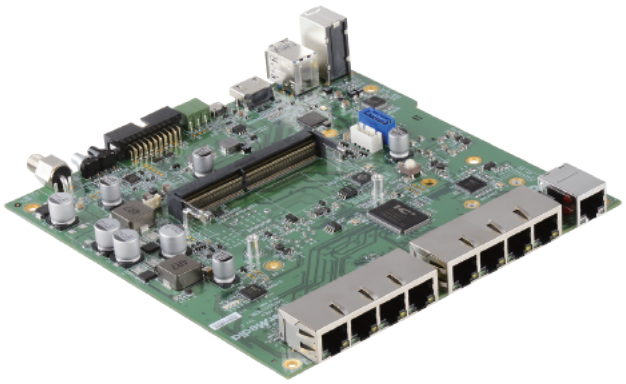
AVerMedia

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™ (version B01)/Xavier NX module



Features

- Fully supports NVIDIA® Jetson Nano™ (version B01)/Xavier NX module
- 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

Description

AVerMedia's AVerAI EN713-AAE9-0000 carrier board of NVIDIA® Jetson Nano™ (version B01)/Xavier NX module 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, 2x I2C, 5x GPIOs), and 1x HDMI 2.0 out.

Benefiting from the Jetson Nano™ (version B01)/Xavier NX module 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.

Embedded Vision Solutions for NVIDIA Jetson

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

- Standard and customized Nano/Tegra/AGX Xavier/Xavier NX carrier boards.
- Standard and customized Nano/Tegra/AGX Xavier/Xavier NX application-ready systems.
- Software design service of Linux BSP, driver, OpenCV, VisionWorks, and cuDNN.

Why AVerMedia

- As NVIDIA® PREFERRED solution provider, AVerMedia gets the direct support from NVIDIA. We are able to offer technical support in 24 hours to help your project success.
- Support full range of NVIDIA Jetson modules, including Nano, Tegra, and AGX Xavier.
- Support various video input sources from IP camera, USB camera, MIPI camera, and capture cards supporting HDMI/VGA/3G-SDI/Composite video sources.
- Provide customization services of HW, PCB, chassis, BSP, driver, and UX/UI/ID/ME design.
- Supports 65°C/149°F operating temperature in the No-Air-Flow environment for fanless system designed by using AVerCooler technologies.
- Provide flexible user-configured security to protect the SW.

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Specifications

Type	Carrier Board
NVIDIA GPU SoC Module Compatibility	NVIDIA® Jetson Nano™ (version B01)/Xavier NX module
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 90W
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 (IEEE 802.11a/b/g/n/ac dual-band 2x2 MIMO (Optional) (Host Interface: USB 2.0)
RS-485	1x RS-485 Pluggable Terminal Block (3 pins)
SATA Rev. 3.1	1x SATA Rev. 3.1
Audio	1x Mic-in, 1x Speaker-out
Input Power	54V/2.78A
Buttons	Power and Recovery (Power button is green LED)
RTC Battery	Support RTC battery and Battery Life Monitoring by MCU
Dimension/ Weight	W: 170mm x L: 170mm x H: 41.0mm (6.69" x 6.69" x 1.61") Weight:235.8g
Certifications	CE, FCC

* All specifications are subject to change without prior notice.

RoHS 2 COMPLIANT

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