

AVerAI EA713-AAS2 Passive cooling Box PC (Fanless)



**PREFERRED
SOLUTION
PROVIDER**

Fully support NVIDIA® Jetson AGX Xavier™ with 2x 1080p30 SDI inputs



Features

- Fully support NVIDIA® Jetson AGX Xavier™
- 2x 1080p30 SDI video inputs
- 2x GbE, 2x USB 3.0, 1x 4Kp60 HDMI output
- 1x USB 2.0 Micro-B OTG , 1x micro SD
- 1x CAN bus, 1x RS-485, 1x Mic-in, 1x Speaker-out
- 40-pin with 1x UART, 1x I2C, 1x SPI, 1x I2S, 5x GPIO
- Operating temperature: -10 °C ~ 70 °C, no air flow
- Compact passive cooling chassis with AVerCooler Wave-Fin
- Chassis dimension: W:196mm x L:252mm x H:60mm

Specifications

Product Name	Family Name	EA713-AAS2
Product type	Carrier/Box PC	Passive cooling Box PC (Fanless)
Core	SoM	NVIDIA® Jetson AGX Xavier™
Front I/O	HDMI 2.0 Output	1x HDMI type A, maximum resolution: 3840x2160 at 60Hz
	USB 2.0	1x USB 2.0 Micro-B OTG connector for Jetpack installation only. USB 2.0 function is not available.
	USB 3.0	2x USB 3.0 Type-A
	Ethernet	2x GbE RJ-45
	SD card	1x Micro SD slot (Supports SD 4.0 specification without UHS-II)
	Audio	1x Mic-in, 1x Speaker-out
	CAN bus	1x 3-pin Euroblock
	RS-485	1x 3-pin Euroblock
	Expansion Header	40-pin (2x 20 Header) with 1x UART, 1x I2C, 1x SPI, 1x I2S, (1x CAN, 1x D-MIC or 5x GPIO)
	Power Button	1x with a RGB 3 color LED
Recovery Button	1x with a RGB 3 color LED	
Back I/O	Video Input	2x 1080p30 SDI video inputs
	Wi-Fi Antenna	2x SMA female connector (Optional)
Internal PCIe Sockets	1x M.2 E Key 2230	1x for Wi-Fi/BT module
	1x M.2 M key 2280	1x for SSD
MCU	MCU Power Function	Automatically turn on system when the power input is connected
	Watch Dog	RTC battery life monitor
Power	Power Input	12V/5A
Environment	Operating Temperature	-10° C ~ 70° C, no air flow, by using passive cooling chassis with AVerCooler™ Wave-Fin
	Storage Temperature	-20° C ~ 85° C
	Relative Humidity	40° C @ 95%, Non-Condensing
	Vibration During Operation	With Desk/Wall Mount: 3 Grms, IEC 60068-2-64, random vibration, 5 ~ 500 Hz, 1 hr/axis
Physical Characteristics	Shock During Operation	30G, IEC60068-2-27, half sine, 11m duration
	Chassis Dimension	W:196mm x L:252mm x H:60mm (W:226mm with mounting ears)
	Weight	4 kg
System on Module (SoM)	Thermal Solution	Passive cooling chassis with AVerCooler Wave-Fin
	Mounting	Desk/Wall/DIN-rail
	Operating System	Linux for Tegra (L4T) for Jetson AGX Xavier Filesystem: Ubuntu 18.04, Kernel version:4.9
	SoM Name	NVIDIA® Jetson AGX Xavier™
	SoM Power Consumption	10 ~ 30W
	Memory	16GB 256-Bit LPDDR4x 137GB/s
	GPU	512-core Volta GPU with Tensor Cores
	Deep Learning Accelerator	2x NVDLA Engines
	FLOP (fp16)	16T = (11 + 2x 2.5) T
	Carmel CPU Complex	8-core ARM v8.2 64-bit CPU, 8MB L2 + 4MB L3
Regulation	Maximum Operating Frequency	2.26GHz
	Storage	32GB eMMC 5.1
	Video Encode	Maximum Throughput: (2x) 1000 MP/s (H.265) (2x) 980 MP/s (H.264) (2x) 600 MP/s (VP9)
	Video Decode	Maximum Throughput: (2x) 1500 MP/s (H.265) (2x) 1000 MP/s (H.264, VP9)
	EMC	(TBD) CE/FCC Class B, CCC, BSMI, VCCI
Safety	(TBD) CB, UL, CCC, BSMI	

Dimension

