

## EX731-AA00 -2FC2-D00

AVerAI Box: Support 2x HDMI 4Kp60 outputs for TX2



**PREFERRED SOLUTION PROVIDER**



### Features

- Fully support NVIDIA® Jetson™ TX1/TX2
- 1x GbE, 1x USB 3.1 Gen1, 2x 4Kp60 HDMI output
- 1x micro USB2.0, 1x micro SD
- 40-pin with 1x 3.3V UART0, 1x SPI, 1x I2S, 1x I2C, 7x GPIO
- Support WiFi/BT (Optional)
- Operating temperature: -10 ~ 70 °C
- Compact chassis with fan
- Chassis dimension: W:117.2mm x L:76.8mm x H:61mm (W:144.8 mm with mounting ears)

### Specifications

Product Name	Major-Name	EA731-AA00	
	Sub-Name	2FC2-D00	
Core	System on Module (SOM)	Fully support NVIDIA® Tegra® X1	Fully support NVIDIA® Tegra® X2
Front I/O	HDMI 2.0 Output	TX1: 1x HDMI type A maximum resolution: 4096x2160 at 60Hz	TX2: 2x HDMI type A maximum resolution: 3840x2160 at 60Hz
	USB 2.0	1x Micro-B OTG for debug console	
	USB 3.1 Gen1	1x Type-A	
	10/100/1000 BASE-T Ethernet	1x RJ-45	
	Micro SD	1x (Support for SD 4.0 specification without UHS-II)	
	SATA Rev. 3.1	1x	
	Expansion Header	40-pin (2x 20 Header) with 1x 3.3V UART0, 1x SPI, 1x I2S, 1x I2C, 7x GPIO	
	Power Button	1x with a RGB 3 color LED	
	Recovery Button	1x with a RGB 3 color LED	
	Reset Button	1x with a RGB 3 color LED	
Back I/O	WiFi	IEEE 802.11ac 2x2 (Optional)	IEEE 802.11a/b/g/n/ac dual-band 2x2 MIMO (Optional)
	WiFi Antenna	2x SMA female connector (Optional)	
	Bluetooth	4.0 (Optional)	4.1 (Optional)
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	
	Operating Temperature	-10 °C ~ 70 °C	
	Storage Temperature	-20 °C ~ 85 °C	
	Relative Humidity	40 °C @ 95%, Non-Condensing	
Environment	Vibration During Operation	With Desk/Wall Mount: 3 Grms, IEC 60068-2-64, random vibration, 5 ~ 500 Hz, 1 hr/axis	
	Shock During Operation	30G, IEC60068-2-27, half sine, 11m duration	
	Chassis Dimension	W:117.2mm x L:76.8mm x H:61mm (W:144.8 mm with mounting ears)	
Physical Characteristics	Weight	0.8 kg	
	Thermal Solution	Chassis with fan module	
	Mounting	Desk/Wall Mount	
	Operating System	Linux for Tegra (L4T) Filesystem: Ubuntu 16.04, Kernel version:4.4.38	
System	SOM Power Consumption	6.5 ~ 15W	7.5W (Max-Q) / 15W (Max-P)
	Temperature Range	-25 ~ 80 °C	
	Memory	4GB 4ch x 16-bit LPDDR4   1600MHz	8GB 4ch x 32-bit LPDDR4   1866MHz
	GPU	Maxwell 256-core	Pascal 256-core
	FLOPS (fp16)	1T	2T
	CPU Complex	ARM® Cortex® -A57 MPCore (Quad-Core) Processor with NEON Technology.	NVIDIA Denver 2 Dual-core CPU ARM Cortex-A57 Quad-core CPU
	Maximum Operating Frequency	1.73GHz	1.12GHz
	Storage	16GB eMMC 5.1	32GB eMMC 5.1
	Video Encode	Maximum Throughput: 2160p30 (H.265)   2160p30 (H.264)   2160p30 (WEBM VP8)	Maximum Throughput: 2160p60 (H.265)   2160p60 (H.264)   2160p30 (WEBM VP9)
	Video Decode	Maximum Throughput: 2160p60 (H.265)   2160p60 (H.264)   2160p60 (WEBM VP9)	Maximum Throughput: 2x 2160p60 (H.265)   2x 2160p60 (H.264)   2160p60 (WEBM VP9)
Regulation	EMC	(TBD) CE/FCC Class B, CCC, BSMI, VCCI	
	Safety	(TBD) CB, UL, CCC, BSMI	

## Dimension

