

EPC-R7000

NVIDIA Jetson TX2 ARM-Based Edge AI Inference Box Computer



Features

- NVIDIA® JETSON™ TX2 Dual-Core NVIDIA Denver2 + Quad-Core ARM Cortex-A57
- NVIDIA Pascal™ 256 CUDA Cores GPU
- 8GB LPDDR4 and 32GB eMMC NAND Flash Onboard
- 1 Gigabit Ethernet Port and 2 PoE Ports (IEEE 802.3af)
- 802.11a/b/g/n/ac 2x2 WiFi and Bluetooth 4.1
- AIM-Linux/Edge AI Software Package Support
- 4K H.264/H.265 Encoder & Decoder
- -20 ~ 60 °C Operating Temperature/ 19V DC Power Supply



Introduction

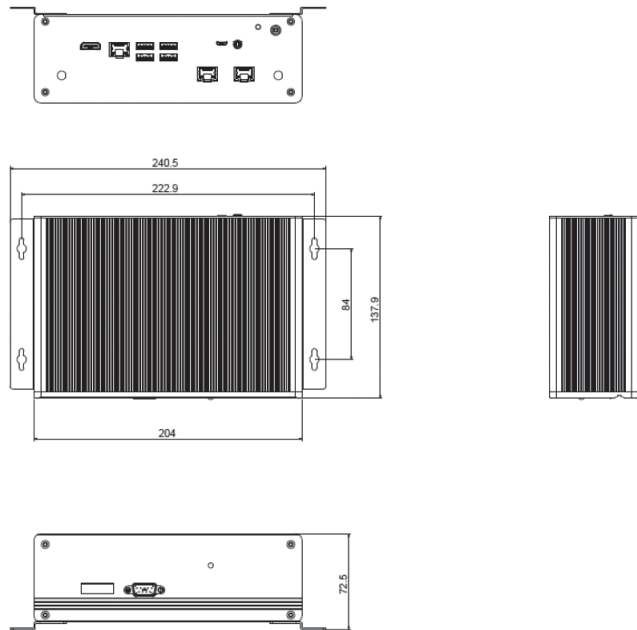
EPC-R7000 is an ARM-based Edge AI Inference Box Computer powered by NVIDIA® JETSON™ TX2 Dual-Core NVIDIA Denver2 + Quad-core ARM Cortex-A57 processor and NVIDIA Pascal™ 256 CUDA cores GPU which provides high performance computing and supports the AIM-Linux/Edge AI Software Package. It is an ideal solution for AI and Machine Vision applications.

Specifications

Form Factor		ARM-Based Box Computer
Processor	CPU	Dual-Core NVIDIA Denver 2 64-Bit CPU Quad-Core ARM® Cortex®-A57 MPCore
	GPU	NVIDIA Pascal™ GPU Architecture with 256 NVIDIA CUDA Cores
Memory	Technology	LPDDR4 1600MHz
	Capacity	On-board 8GB LPDDR4
	Flash	32GB eMMC NAND Flash
Graphics	HDMI	1 HDMI, 3840 x 2160 at 60Hz
	H/W Video Codec	Encode: H.264, H265, VP8 Decode: H.264, H265, VP8, MPEG4, 4k@60FPS
Ethernet	Chipset	Integrated RGMII
	Speed	1 10/100/1000 Mbps
RTC		Yes
WatchDog Timer		Yes
Expansion	SATA	(2.5" HDD/SSD 1TB, Optional)
Connectivity	WiFi	802.11a/b/g/n/ac 2x2 WiFi
	Bluetooth	Bluetooth 4.1
I/O	USB	4 x USB 3.0 Type-A; 1 x USB 2.0 Micro-AB
	Audio	1 x line-out
	SPDIF	-
	Serial Port	1 x 4-wire RS-232
	CAN	-
	GPIO	12 x GPIO (6 x DO, 6 x DI), 5V level
	I ² C	-
	System Bus	-
	Touch	-
	I/R	-
	LED	1 x Power LED
	Button	1 x Reset Button, 1 x Recovery Button
	Camera	2 x 802.3af (PSE Power Max 15.4W Out)
	Power	Power Supply Voltage
Power Type		DC-in
Power Consumption		TBD
Environment	Operational Temperature	-20 ~ 60 °C
	Operating Humidity	5% ~ 95%
Mechanical	Dimensions (W x D)	204 x 138 x 67 mm
Operating System		Ubuntu
Certifications		CCC/CE/FCC Class B

Dimensions

Unit: mm



Ordering Information

Part Number	CPU	Memory	Storage	HDMI	LAN	Software	Operating Temperature
EPC-R7000IQ-SUA1E	NVIDIA Jetson Tegra X2	8GB LPDDR4	32GB eMMC	1	1	Ubuntu OS with AIM-Linux/Edge AI Software Package	-20 - 60 °C

Packing List

Part Number	Description
EPC-R7000	EPC-R7000 Edge AI Inference Box Computer

Optional Accessories

Port Number	Description
170203183C	Power Cord 3P Europe (WS-010+WS-083) 183 cm
170203180A	Power Cord 3P UK 2.5A/3A 250V 183 cm
1700019146	Power Cord CCC 3P 10A 250V 183 cm
1700008921	Power Cord 3P PSE 183 cm
TBD	Half PoE Camera 180°
TBD	Bullet PoE Camera 78°