

EPIC-ADS7-PUC PRELIMINARY

EPIC System with 12th Generation Intel® Core™ Processor

Front View



Rear View



Features

- 12th Generation Intel® Core™ Processor
- DDR5 SODIMM x 2 (up to 64GB, 4800 MT/s)
- HDMI 2.0b x 1 , DP++ 1.4a x 2
- SATA3 x 2 (2.5"SSD x2 containable)
- RJ45 (2.5GbE) x 1, RJ45 (GbE) x 3
- USB3.2 Gen2x2(Type C) x 1, USB3.2 Gen2 (Type A) x 4, USB2.0 x 2
- M.2 3052 B key x 1 , M.2 2280 M key x 1, M.2 2230 E key x 1
- COM Port x 2 , DIO 8 bit x 1
- DC Jack 12V in

AUDIO	
CODEC	—
AUDIO INTERFACE	—
SPEAKER	—
EXTERNAL I/O	
ETHERNET	Intel® I211AT, 10/100/1000Base, RJ45 x2 Intel® I219LM, 10/100/1000Base, RJ45 x1 Intel® I225LM, 10/100/2500Base, RJ45 x1
USB	USB3.2 Gen 2x 2 (Type C) x 1 (for i7 sku + R680E) USB 3.2 Gen2 (Type A) x 4 USB2.0 (Type A) x 2
SERIAL PORT	COM RS232/422/485 x 2
VIDEO	DP++ 1.4a x 2 HDMI 2.0b x 1
INTERNAL I/O	
USB	—
SERIAL PORT	—
VIDEO	—
SATA	SATA 3 x 2 (2.5" SSD x 2 containable) +5V SATA Power Connector x 2
AUDIO	—
DIO/GPIO	—
SMBUS/I2C	—
TOUCH	—
FAN	4-pin Smart Fan x 1
SIM	Nano SIM Slot x 1
FRONT PANEL	PWR LED, Power Button
OTHERS	—
EXPANSION	
M.2	M.2 3052 B key x 1 (PCIe 3.0 + USB3.0 for i7 sku + R680E) (PCIe 3.0 + USB2.0 for i3 sku + H610E) M.2 2280 M key x 1 (PCIe 4.0 Gen4 [x4] x 1) (for i7 sku + R680E) M.2 2230 E key x 1 (PCIe 3.0+USB2.0)
OTHERS	DIO 8 bit x 1 (Front Panel), 3pin TCC/TSN x 1 (Optional) (for i7 sku + R680E) NanoSim x 1
ENVIRONMENT & CERTIFICATION	
OPERATING TEMP	32°F ~ 122°F (0°C ~ 50°C) with 0.5 m/s airflow
STORAGE TEMP	-40°F ~ 176°F (-40°C ~ 80°C)
OPERATING HUMIDITY	0% ~ 90% relative humidity, non-condensing
MTBF (HOURS)	TBD
EMC	CE/FCC Class A

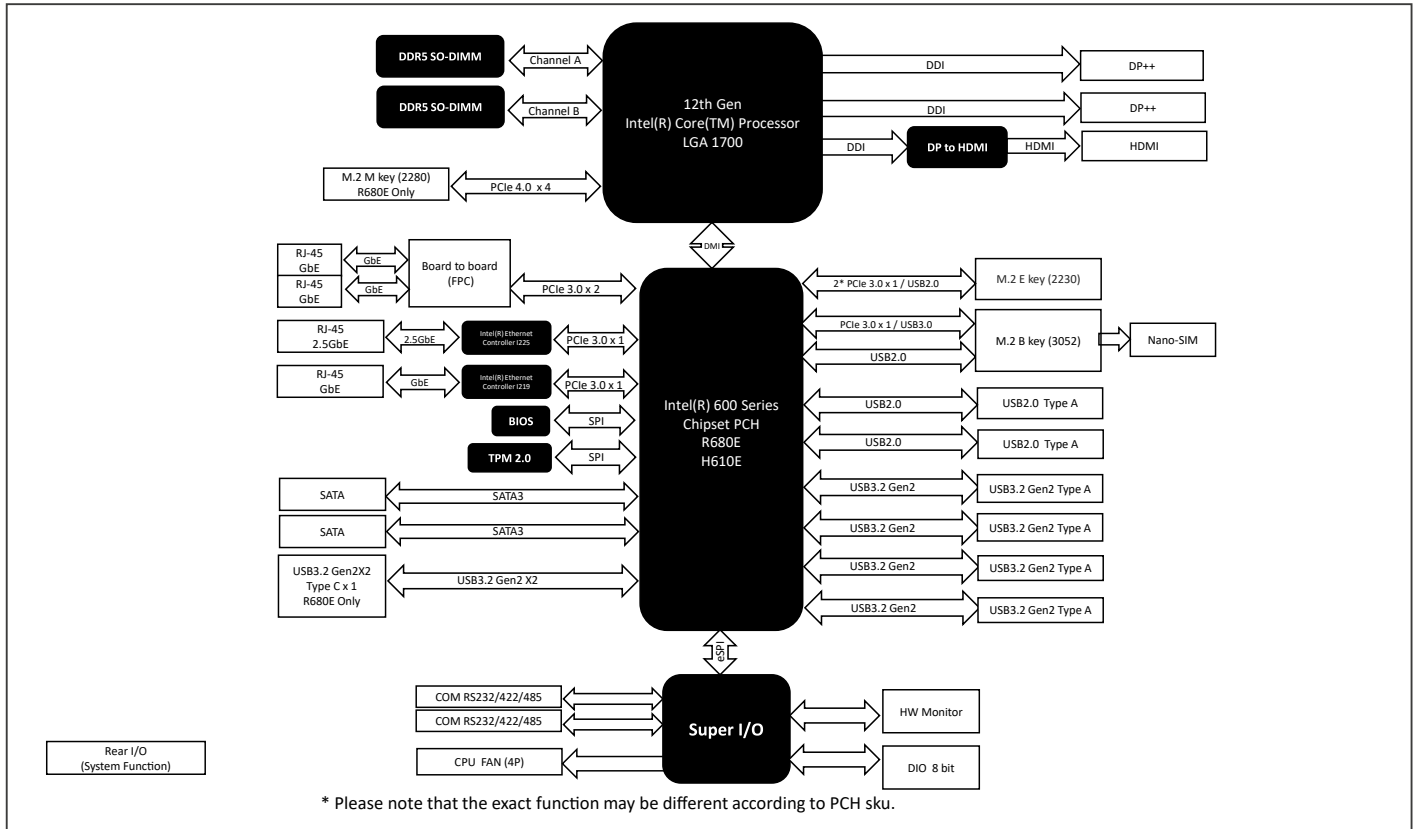
Specifications

SYSTEM	
FORM FACTOR	4" EPIC System
CPU	12th Generation Intel® Core™ Series Processor
CPU TDP	Up to 65W
CHIPSET	Intel® 600 Series Desktop Chipset
MEMORY TYPE	DDR5 SODIMM x 2 (up to 64GB , 4800MT/s)
BIOS	UEFI
WAKE ON LAN	Yes, 2 Ports Only (Left Side)
WATCHDOG TIMER	255 Levels
SECURITY	TPM 2.0
RTC BATTERY	Lithium Battery 3V/240MAH
DIMENSION (L X W X D)	10.2" x 6.3" x 2.1" (260mm x 160mm x 55mm)
POWER	
POWER REQUIREMENT	+12V
POWER SUPPLY TYPE	AT
CONNECTOR	DC Jack Connector
POWER CONSUMPTION	TBD
DISPLAY	
CONTROLLER	Intel® UHD Graphics 770 / Intel® UHD Graphics 730 (by CPU sku)
DISPLAY INTERFACE	DP++ 1.4a x 2 HDMI 2.0b x 1
MULTIPLE DISPLAYS	3 Simultaneous Displays

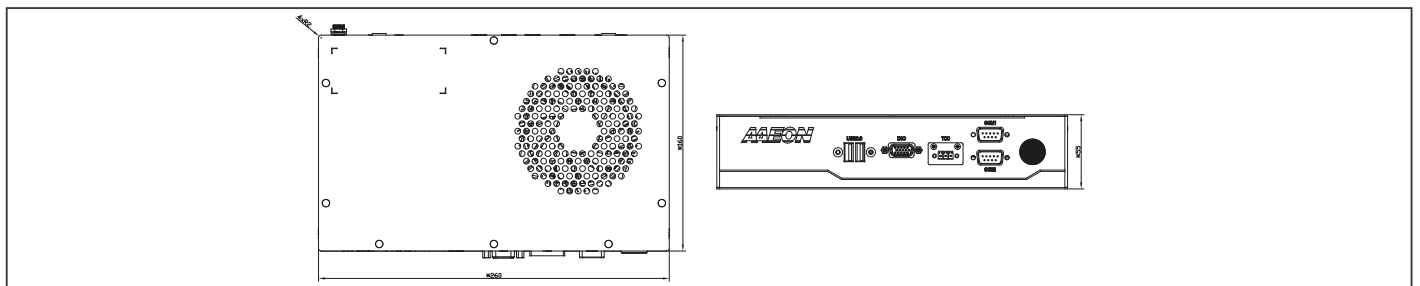
Optional Accessories

Part Number	Description	QTY
EP-CBPC250V3PUK	UK Type Power Cord Plug 1800±30mm	1

Block Diagram



Dimension (260mm x 160mm x 55mm)



Packing List

- EPIC-ADS7-PUC x 1
- AC/DC Adapter.100-240V.150W.DC JACK
- US Type Power Cord Plug 1800±30mm
- EU Type Power Cord Plug 1800±30mm

Ordering Information (Preliminary)

Part Number	CPU	Chipset	Memory	Fan/Fanless	Display	Storage	LAN	USB	RS-232/422/485	Expansion Slot	Power	Operating Temperature	Others
EPIC-ADS7-PUC-A11-0001	i7-12700E (TDP : 65W)	R680E Chipset	DDR5 16GB x 2	4-pin Smart Fan	DP++ 1.4a x 2 HDMI 2.0b x 1	SATA 3 x 2	2.5GbE (RJ45) x 1, GbE (RJ45) x 3	USB3.2 Gen2x2 (Type C) x 1, USB3.2 Gen2x1 (Type A) x 4, USB2.0 (Type A) x 2	2	M.2 3052 B key x 1 (with Nano Sim Slot) M.2 2280 M key x 1 (with PCIe NVMe 256GB SSD) M.2 2230 E key x 1	+12V DC in	32°F ~ 122°F (0°C ~ 50°C)	DIO 8 bit x 1 TCC/TSN (3 pin) x 1 150W Power Adaptor x 1 Power Cord x 2 (US x 1, EU x 1) Pre-installed software : Ubuntu 20.04 LTS and Intel(R) Edge Insights for Vision 2021.4.2.LTE.
EPIC-ADS7-PUC-A11-0002	i3-12100TE (TDP : 35W)	H610E Chipset	DDR5 8GB x 2	4-pin Smart Fan	DP++ 1.4a x 2 HDMI 2.0b x 1	SATA 3 x 2 (with 2.5" 128GB SSD x 1)	2.5GbE (RJ45) x 1, GbE (RJ45) x 3	USB3.2 Gen2x1 (Type A) x 4, USB2.0 (Type A) x 2	2	M.2 3052 B key x 1 (with Nano Sim slot) M.2 2230 E key x 1	+12V DC in	32°F ~ 122°F (0°C ~ 50°C)	DIO 8 bit x 1 150W Power Adaptor x 1 Power Cord x 2 (US x 1, EU x 1) Pre-installed software : Ubuntu 20.04 LTS and Intel(R) Edge Insights for Vision 2021.4.2.LTE.