

ARAIID-IPC 6000

AI Edge Inference Computer w/ LGA 1700 for Intel 12/13/14th Gen CPU & R680E PCH, Hardware RAID Storage w/ Dual-Bay SATA III, Cross-Platform Support

Features

- LGA 1700 socket for 12/13/14th Gen. Intel® ADL & RPL Processor (35W TDP)
- Intel® R680E Chipset
- 2x DDR5 4800/5600MHz SODIMM. Max. up to 64GB
- 3x Independent Displays: 1x DVI-I, 2x DisplayPort
- 2x Intel® 2.5 GbE supporting Wake-on-LAN and PXE
- 1x Full-size Mini PCIe for communication or expansion modules, 2x SIM socket
- 1x 7mm 2.5" SATA SSD (Hot-swap)
- 1x M.2 (E Key, PCIe x1, USB 2.0, 2230)
- 1x M.2 (B Key, 2242/3042/3052, PCIe x2, Support AI Module/NVMe Storage, PCIe x1 & USB 3.2 Gen1, Support 4G/5G)
- 6x RS-232/422/485 (4x internal), 8x USB 3.2 Gen 2, 1x USB 3.2 Gen 1 (internal)
- 9 to 48VDC Wide Range Power Input Supporting AT/ATX Mode
- Wide Operating Temperature, 0°C to 50°C (35W CPU), 0°C to 50°C (65W CPU)
- TPM 2.0 Supported



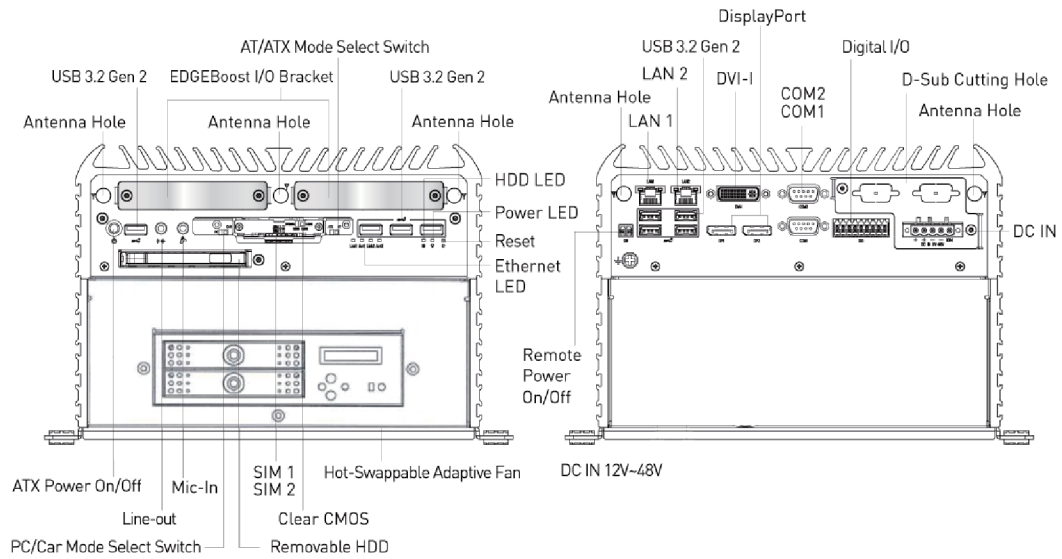
Specifications

System	
Processor	
Support 12/13th/14th(Non-vPRO) Gen Intel® ADL & RPL Processor (LGA 1700, 65W/35W TDP)	
- Intel® Core™ i9-14900/i9-13900E/i9-12900E, 65W	
- Intel® Core™ i9-14900T/i9-13900TE/i9-12900TE, 35W	
- Intel® Core™ i7-14700/i7-13700E/i7-12700E, 65W	
- Intel® Core™ i7-14700T/i7-13700TE/i7-12700TE, 35W	
- Intel® Core™ i5-14500/i5-13500E/i5-12500E, 65 W	
- Intel® Core™ i5-14500T/i5-13500TE/i5-12500TE, 35W	
- Intel® Core™ i3-13100E/i3-12100E, 60W	
- Intel® Core™ i3-14100T/i3-13100TE/i3-12100TE, 35W	
- Intel® Core™ 300T, 35W	
- Intel® Pentium® G7400E, 46W / G7400TE, 35W	
- Intel® Celeron® G6900E, 46W / G6900TE, 35W	
System Chipset	Intel® R680E Express Chipset
LAN Chipset	2.5 GbE1: Intel I226, 2.5 GbE2: Intel I226 Support Wake-on-LAN and PXE, Support TSN
Audio Codec	Realtek ALC888S
System Memory	2x 262-Pin DDR5 4800/5600MHz SODIMM. Max. up to 64GB (ECC and Non-ECC)
Graphics	Intel® UHD Graphics 770/710
BIOS	AMI 256Mbit SPI BIOS
Watchdog	Software Programmable Supports 1~255 sec. System Reset
AI Accelerator	Supports 3x Hailo-8™ modules
TPM	TPM 2.0
Display	
Display Port	2x DisplayPort, Support resolution 5120 x 3200, Up to 7680 x 4320
DVI	1x DVI-I, support resolution 1920 x 1200
Multiple Display	Triple Display
Storage	
Host Interface	SATA III (6.0 Gbps), compatible with SATA I (1.5 Gbps) and SATA II (3.0 Gbps)
Disk Drive Interface	SATA III (6.0 Gbps) x 2
RAID Levels	RAID 1, RAID 0 (can be set by the user)
SSD	2.5" SATA SSD (Hot-Swappable) x 3
HDD/SSD Compatibility	https://reurl.cc/yRYjjq
Expansion	
M.2	1x M.2 B Key, 2242/3042/3052 (PCIe x2, Support AI Module/NVMe Storage) (PCIe x1 & USB 3.2 Gen1, Support 4G/5G)
mSATA	1x mSATA (Shared by 1x Mini PCI Express)
Expansion Modules	
2x EDGEBoost I/O Brackets:	
• 4-port GbE module with Intel® I350 Chipset, RJ-45/M12 connector (PoE optional)	
• 2-Port RJ45 10GbE with Intel X710 Chipset	
• 4-Port USB 3.0 (share PCIe Gen2 x1 bandwidth)	
• 1x M.2 B-Key, 2242 for AI/NVMe, 1x M.2 B-Key, 3042/3052 for 5G/AI/NVMe	
• 1x M.2 M-Key, PCIe x4 Lane, 2242/2260 for AI Module/NVMe	
• 1x M.2 for 5G (B Key, PCIe x1, USB 3.0, 3042/3052), 2x SIM socket, 1x SIM switch	

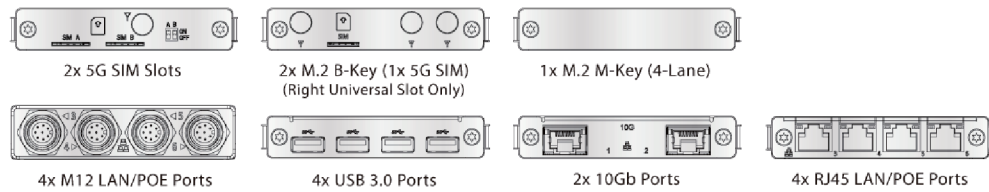
I/O	
Audio	1x Mic-in, 1x Line-out
CAN	2x CAN 2.0 A/B 2-pin Internal header
COM	2x RS-232/422/485 ; 4x RS-232/422/485 (Internal)
DIO	8 in / 8 out (Isolated)
EDGEBoost I/O Bracket	2x EDGEBoost I/O Bracket (By mini PCIe interface)
LAN	2x RJ45
USB	8x USB 3.2 Gen 2 (10 Gbps) 1x USB 3.2 Gen 1 (5 Gbps, 1x Internal), 2x USB 2.0 (Internal)
Others	5x WiFi Antenna Holes 1x Power Switch, 1x AT/ATX Switch, 1x Remote Power On/Off 1x PC/Car Mode Switch, 1x Delay Time Switch 1x Removable CMOS Battery
Operating System	
Windows	Windows 10/11
Linux	Linux kernel
Power	
Power Adapter	Optional AC/DC 24V/9.2A, 220W Optional AC/DC 24V/11.67A, 280W Optional AC/DC 24V/15A, 360W (i7/i9 CPU/GPU/Card Expansion)
Power Mode	AT, ATX
Power Ignition Sensing	Power Ignition Management
Power Supply Voltage	9~48VDC 12~48VDC for NVMe/GPU EDGEboost Node
Power Connector	5-pin Terminal Block
Power Protection	OVP (Over Voltage Protection) OCP (Over Current Protection) Reverse Protection
Environment	
Operating Temperature	0°C to 50°C (35W CPU) 0°C to 50°C (65W CPU) (Optional External Fan Kit: Recommended for i9 CPU/65W)
Storage Temperature	-30°C to 85°C
Relative Humidity	10% to 95% (non-condensing)
Vibration	IEC60068-2-64:2008 With HDD: 1 Grms (5 - 500 Hz, 0.5 hr/axis) With SSD: 3 Grms (5 - 500 Hz, 0.5 hr/axis) Designed to comply with MIL-STD-810G Method 514.7 Procedure I
Shock	IEC60068-2-27:2008 With SSD: 20G half-sin 11ms Designed to comply with MIL-STD-810G Method 516.7 Procedure I
Physical	
Dimensions	240 (W) x 261 (D) x 166.9 (H) mm
Weights	11 ~ 12 kg
Construction	Extruded Aluminum with Heavy Duty Metal
Mounting Options	Wall Mounting

* All specifications and photos are subject to change without notice.

External I/O Mechanical Layout



Available EDGEBoost I/O



Dimension

Unit: mm

