



EDGE AI WORKSTATION

KCO-6000-ARL

High-Performance Edge AI Workstation with Intel® Core™ Ultra Series 2 Processors, Arrow Lake-S, W880 PCH



Features

- Intel® Core™ Ultra 9/7/5 Series processor support, max. 65W TDP
- Intel® W880 chipset platform
- 2x DDR5 4800/5600MHz SO-DIMM, up to 96GB, non-ECC/ECC support
- 3x 2.5GbE LAN ports with Intel® I226 controllers; LAN1 supports iAMT
- 2x DP++ and 1x HDMI for triple independent display output
- 6x USB 3.2 Gen 2 Type-A ports and 4x COM ports
- 1x M.2 M Key, 1x M.2 E Key, 1x M.2 B Key with SIM holder, and 1x 2.5" SATA drive bay
- Riser card options for PCIe Gen 5 / Gen 4 expansion
- DC 24-48V input with OVP, OCP, and reverse protection
- Optional 600W AC/DC GPU Power Supply
- 170(W) x 216(D) x 385(H) mm

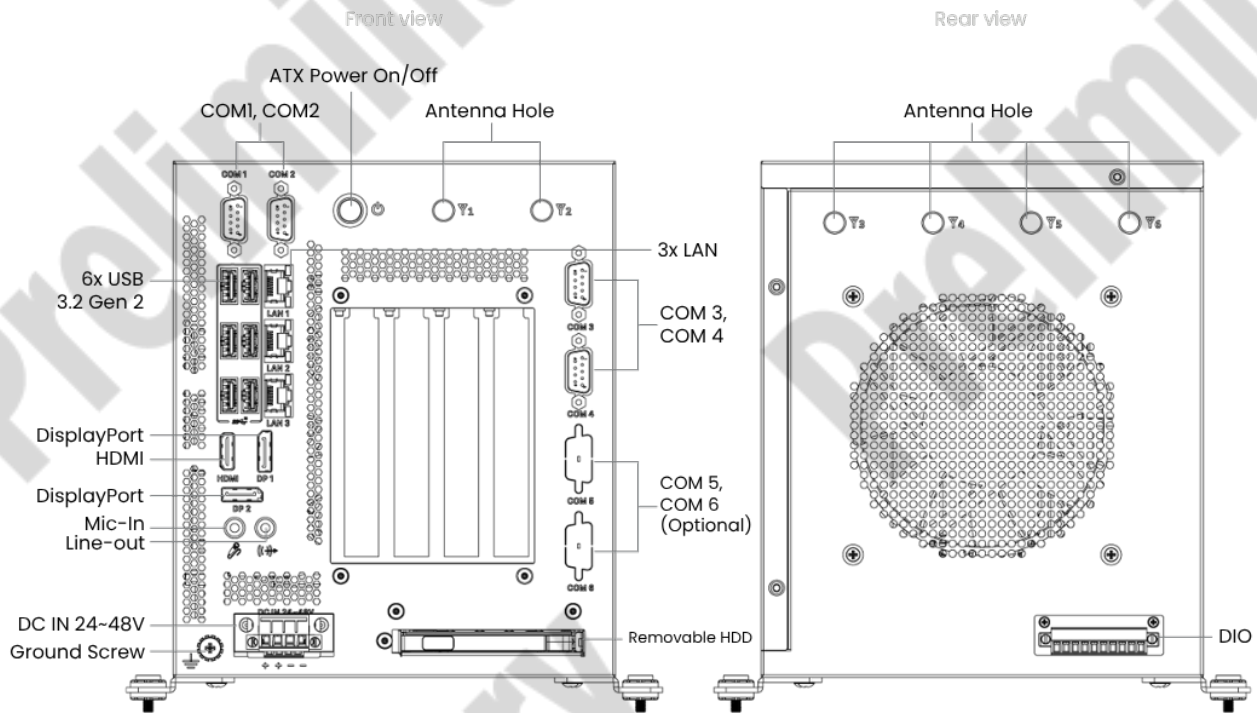


Specifications

System	
Processor	Intel® Arrow Lake-S Core™ Ultra Processors (Series 2, LGA1851)
	<ul style="list-style-type: none"> • Intel® Core™ Ultra 5 Processor 225T, 35W • Intel® Core™ Ultra 5 Processor 225, 65W • Intel® Core™ Ultra 7 Processor 265T, 35W • Intel® Core™ Ultra 7 Processor 265, 65W • Intel® Core™ Ultra 9 Processor 285T, 35W • Intel® Core™ Ultra 9 Processor 285, 65W
System Chipset	Intel® W880 PCH
LAN Chipset	GbE1: Intel® I226-LM; 2.5GbE (Support iAMT, Wake-on-LAN and PXE) GbE2: Intel® I226-V; 2.5GbE (Support Wake-on-LAN and PXE) GbE3: Intel® I226-V; 2.5GbE (Support Wake-on-LAN and PXE)
Audio Codec	Realtek ALC888S HD Audio Codec, support 5.1 channel
System Memory	2x DDR5 4800/5600MHz SO-DIMM, up to 96GB, non-ECC/ECC
Graphics	Intel® Integrated Iris Xe Graphic (CPU Dependent)
BIOS	AMI uEFI 256MB SPI flash
Watchdog	Software Programmable Supports 1~255 sec. System Reset
iAMT	Intel® AMT 12.0 supported
TPM	TPM 2.0
Display	
Display Port	2x DP++
Storage	
M.2	1x M.2 M Key (PCIe x4 NVMe, SATA 3.0), 2280
SATA	1x 7mm 2.5" SATA HDD Bay (Hot-swappable)
Expansion	
M.2	1x M.2 E Key (PCIe x1 and USB 2.0), 2230 1x M.2 B Key (PCIe x2 NVMe, USB 3.2 Gen 1), 2242/3042/305
PCIe	PCIe Expansion Options: <ul style="list-style-type: none"> • 1x PCIe x16 (Gen 5, 16-lane), 1x PCIe x16 (Gen 4, 4-lane) • 2x PCIe x16 (Gen 5, 8-lane), 1x PCIe x16 (Gen 4, 4-lane)
I/O	
Audio	1x Line-out, 1x Mic-in
COM	2x COM RS-232/422/485 2x RS-232
GPIO	1x 8-bit GPIO
LAN	3x RJ45 2.5GbE LAN
USB	6x USB 3.2 Gen 2 Type-A
Others	6x antenna holes
Internal I/O	
Others	1x SPI header 1x Front panel 1x CPU fan 2x System fan
Operating System	
Windows	Windows 11
Linux	Linux Kernel / Ubuntu 24.04 LTS
Power	
Power Adapter	Optional AC/DC 600W
Power Management	ACPI 5.0 compliant
Power Mode	AT / ATX, default ATX
Power Supply Voltage	DC 24-48V input
Power Connector	1x 4-pin terminal block
Power Protection	OVP, OCP, reverse protection

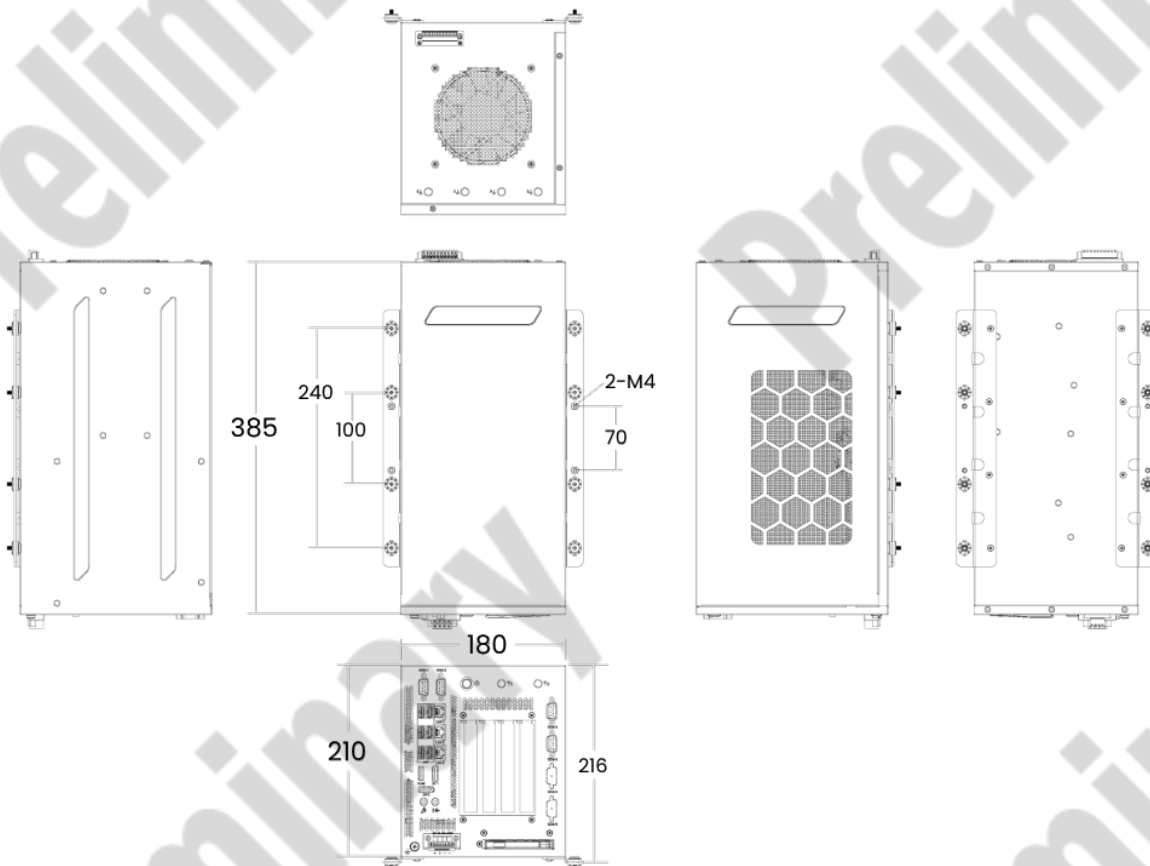
Environment	
Operating Temperature	0 °C to 45 °C
Storage Temperature	-10°C to 60°C
Relative Humidity	10% ~ 95% relative humidity, non-condensing
Certification	FCC, CE
Vibration	1 Grms, 5 - 500 Hz, 1 hr/axis
Shock	With SSD: 20G, half sine, 11ms
Physical	
Dimensions	267.60(L) x 104.86(H) x 34.36(W) mm
Weights	TBD
Construction	Heavy Duty Metal
Mounting Options	Wall mounting

External I/O Mechanical Layout



Dimension

Unit: mm



Compliances and Standards

Vibration	1 Grms, 5 - 500 Hz, 1 hr/axis IEC60068-2-64:2008
Shock	With SSD: 20G, half sine, 11ms IEC60068-2-27:2008 Designed to comply with MIL-STD-810H Method 516.8 Procedure I
Operating Temperature	0 °C to 45 °C IEC60068-2-1:2007 (Cold test procedure) IEC60068-2-2:2007 (Dry heat test procedure) IEC60068-2-3:2007 (Damp heat, steady state, test procedure) IEC60068-2-14:2009 (Wide temperature range thermal shock)
EMC	<ul style="list-style-type: none"> • FCC Class A • CE • ICES-003 • UKCA • Industrial EMC Compliance - EN 61000-4-2: 2009 - EN IEC 61000-4-3: 2020 - EN 61000-4-4: 2012 - EN 61000-4-5: 2014 +A1: 2017 - EN 61000-4-6: 2014
Safety	<ul style="list-style-type: none"> • Test procedure: CB Scheme • Standard: IEC 62368-1:2018

Available Models

Model No.	Description
KCO-6000-ARL	High-Performance Edge AI Workstation with Intel® Core™ Ultra Series 2 Processors, Arrow Lake-S, W880 PCH

Optional Accessories

Model No.	Description
999930	Power Cord, 3-pin US Type, 180cm
1-TPCD00002	Power Cord, European Type, 180cm
1-TPCD00001	Power Cord, 3-pin UK Type, 180cm

Exports And Tariff Codes

ECCN	5A992.c
HTS	8542.31.0001
ScheduleB	84.71

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