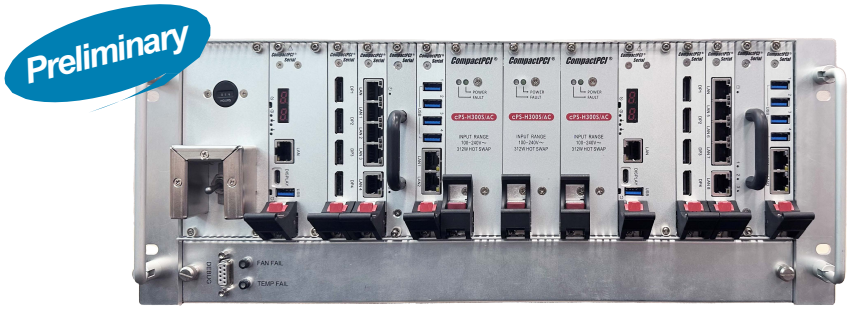
ADLINK
LEADING EDGE COMPUTING

3U Compact PCI Serial
Military Grade Multifunctional Workstation

AD-3100

Datasheet



Features

- 3U CompactPCI Serial dual systems
- 11th Gen. Intel® Xeon® W-11865MRE processor
- Supports 2x DVI-D output per system in the rear side
- Supports 4x GbE LAN, 3x USB3.2 Gen 1, and 2x RS-422 per system in the rear side
- Military-grade I/O connectors
- 19” rack mount chassis with foldable side handles, cooling fans, and filter

Specification

Architecture	Dual Systems	2x 3U CPCI-S.0 system
System	CPU	Intel® Xeon® W-11865MRE (formerly Tiger Lake-H), TDP 45W
	Chipset	Intel® RM590E
	Memory	64GB DDR4 ECC SODIMM memory (2x 32GB) pre-installed
	BIOS	AMI UEFI BIOS, dual 256Mb SPI flash memory
	Graphics	NVIDIA RTX™ A1000 GA107-950 GPU for video output purpose 4GB GDDR6 soldered onboard memory
	Front Side I/O Interface	4x GbE LAN, RJ45 • 1x GbE LAN with 2KV isolation, RJ45 connector • 3x GbE LAN, RJ45 connector 3x DisplayPort 1.4a • 1x DisplayPort 1.4a, USB Type C connector • 2x DisplayPort 1.4a 5x USB3.2 Gen1, USB Type A connector
	Rear Side I/O Interface	2x DVI-D output, DVI-I connector 4x GbE LAN, MIL-DTL-38999 II / MS27508E10F35S (13 pins, Female) 3x USB3.2 Gen 1, Type A Lockable 2x RS-422, MIL-DTL-38999 II / MS27508E8F35S (6 pins, Female)
	Storage	2TB M.2 M key 2280 NVMe SSD
Power	Connector	MIL-DTL-38999 II / MS27508E12F3P (3 pins, Male)
	Input Voltage	Typical 90-264VAC
	Input Frequency	47-63Hz
	Input Current	Typical 3A at 115VAC Typical 1.5A at 230VAC
	Inrush Current	5.3Arms at 230VAC
	Power Supply	3x 300W AC-DC power supply blade inside Supports current sharing & power redundancy *
	Power Mode	AT mode only
Mechanical	Form Factor	19” rack mount 4U high chassis 84HP (21 slots) internal width
	Dimension	482.32±3mm (W) x 176.95±3mm (H) x 292.10±3mm (D)
	Weight	TBC
	Fan	Front accessible & swappable fans and filters in system bottom Air flows from the bottom to the top
	Handle	2x foldable side handles in front
	Screw Hole	4x M5 screw holes in front

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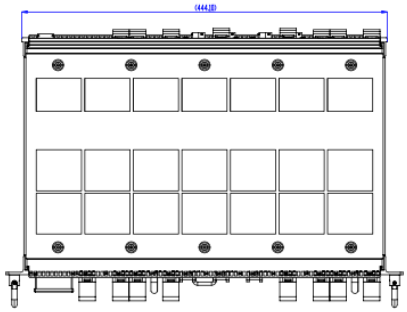
Specification

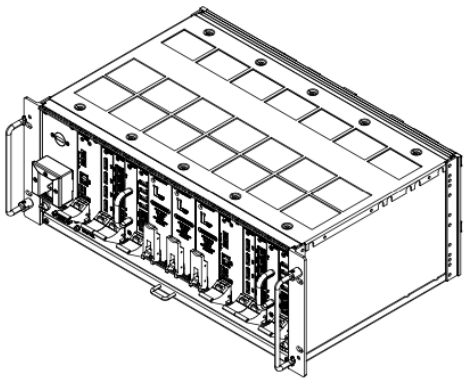
Other	DC Timer	Hour meter display in front panel
	AC Breaker	Manual On/Off toggle in front panel
	LED Indicator	Fan fail LED indicator in front panel
		Temperature fail LED indicator in front panel
	Debug Port	1x DB9 port for fan & temperature check
Environmental	Operating Temperature	0°C to 50°C
	Storage Temperature	-20°C to 60°C
	Humidity	5% to 95%, non-condensing
	Shock	15G peak-to-peak, 11ms duration, non-operation
	Vibration	1.88 Grms, 5-500 Hz, each axis, non-operation

Remark:

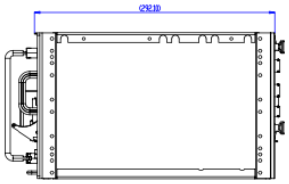
* The workstation shall be powered at least by a total of 600W power supply

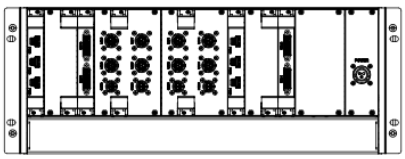
Overview

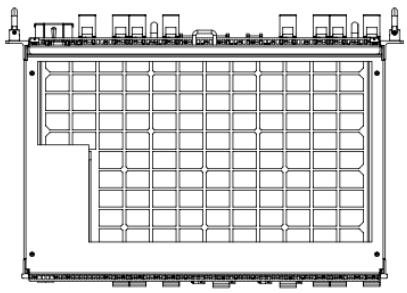








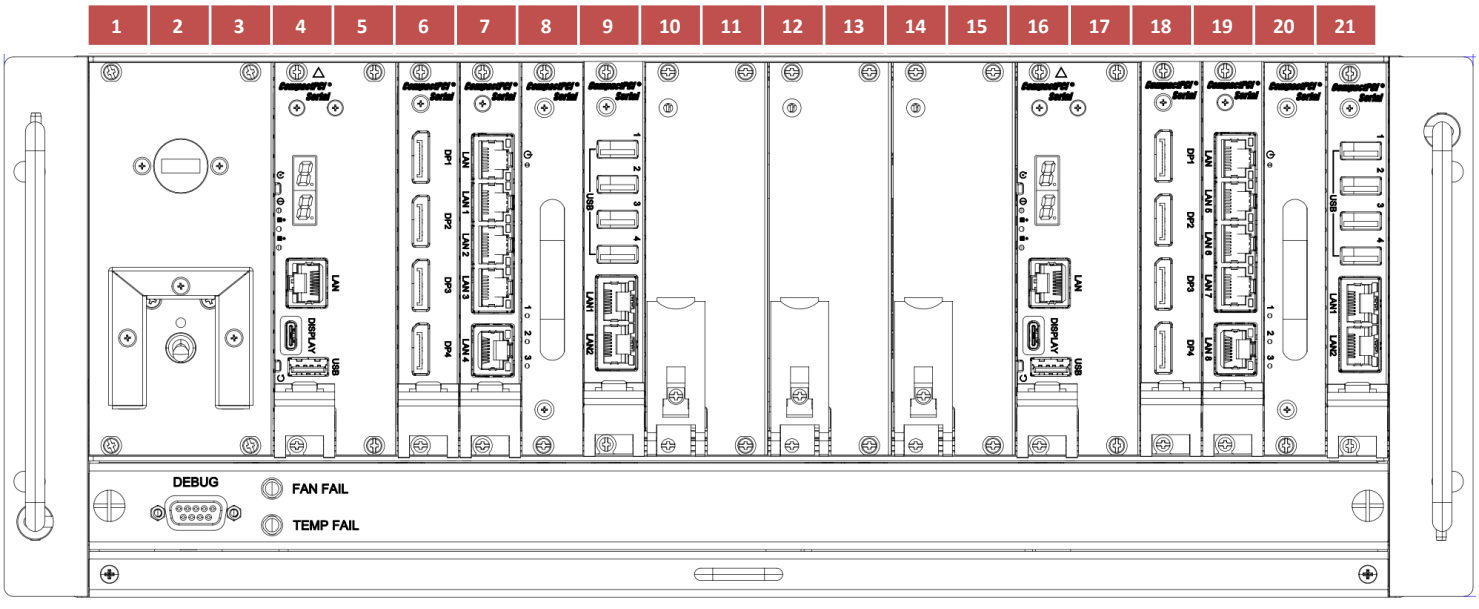




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Front Side 3U CPCI-S.0 Blade List

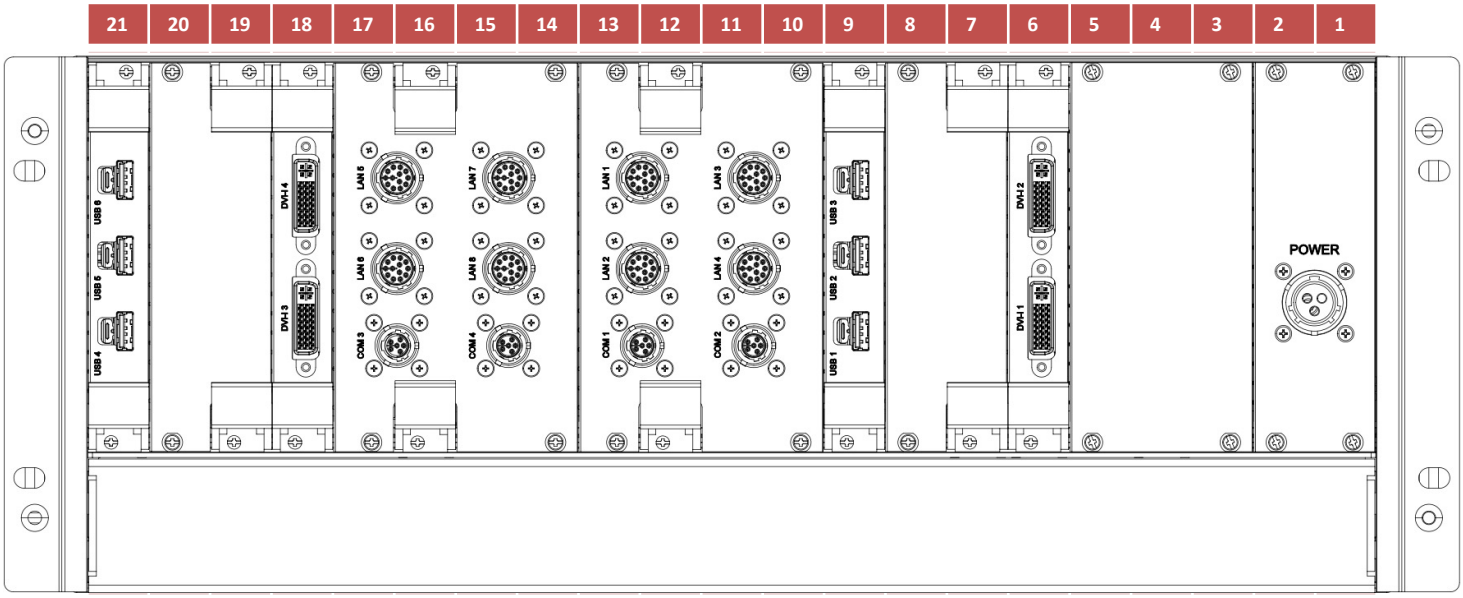
Slot 4~5 Slot 16~17	CPU Blade, 8HP	Intel® Xeon® W-11865MRE (formerly Tiger Lake-H), TDP 45W Intel® RM590E 32GB DDR4 ECC SODIMM memory pre-installed AMI UEFI BIOS, dual 256Mb SPI flash memory 1x GbE LAN with 2KV isolation, RJ45 connector 1x DisplayPort 1.4a, USB Type C connector 1x USB3.2 Gen1, USB Type A Debug card pre-installed Support RS-232/422/485 outputs
Slot 6 Slot 18	GPU Blade, 4HP	NVIDIA RTX™ A1000 GA107-950 GPU 4GB GDDR6 soldered onboard memory 2x DisplayPort 1.4a (DP#1, #DP2) (DP#3, DP#4 are switched to Rear side DVI)
Slot 7	Ethernet Blade, 4HP	Supports 4x GbE LAN 1x GbE LAN, RJ45 connector (LAN) 4x LED Indicator, RJ45 connector, to indicate rear side LAN status Front panel with the printing of LAN/LAN 1/LAN 2/LAN 3/LAN 4 (LAN 1/LAN 2/LAN 3/LAN 4 are switched to rear side LAN)
Slot 19	Ethernet Blade, 4HP	Supports 4x GbE LAN 1x GbE LAN, RJ45 connector (LAN) 4x LED Indicator, RJ45 connector, to indicate rear side LAN status Front panel with the printing of LAN/LAN 5/LAN 6/LAN 7/LAN 8 (LAN 5/LAN 6/LAN 7/LAN 8 are switched to rear side LAN)
Slot 8 Slot 20	Storage Blade, 4HP	ADLINK 2TB M.2 M key 2280 NVMe SSD pre-installed 1x U.2 slot for U.2 SSD installation
Slot 9 Slot 21	USB + Ethernet Blade, 4HP	4x USB3.2 Gen1, USB Type A connector, supports USB devices up to 35W (rear side USB included) 2x GbE LAN, RJ45 connector 1x Internal USB2.0, USB Type A connector
Slot 10~11 Slot 12~13 Slot 14~15	Power Supply Blade, 8HP	300W AC-DC power supply blade



Front Side: #1 – #21 slots

Rear Side I/O

Slot 6	2x DVI	Front panel with the printing of DVI-I 1/DVI-I 2
Slot 9	3x USB	Front panel with the printing of USB 1/USB 2/USB 3
Slot 10~13	4x LAN + 2x RS-422	Front panel with the printing of LAN 1/LAN 2/LAN 3/LAN 4/COM 1/COM 2
Slot 14~17	4x LAN + 2x RS-422	Front panel with the printing of LAN 5/LAN 6/LAN 7/LAN 8/COM 3/COM 4
Slot 18	2x DVI	Front panel with the printing of DVI-I 3/DVI-I 4
Slot 21	3x USB	Front panel with the printing of USB 4/USB 5/USB 6



Rear Side: #21 – #1 slots

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