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Booth I-147

Cincoze High-Performance PCIe Expandable Industrial Computer (DS-1500 Series) for Edge AI

Written by Cincoze Team

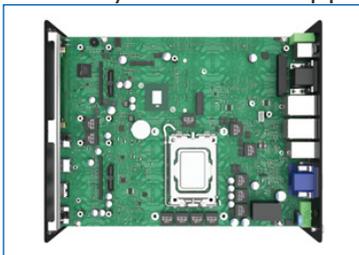
The DS-1500 series is a high-performance, expandable, rugged embedded computer powered by Intel® Core™ Ultra 200S Series CPU and Intel® W880 chipset, supporting modular I/O expansion and up to two PCI/PCIe slots. It has international certifications for stable and reliable performance in harsh environments, making it perfect for smart manufacturing, railway, and more.

Accelerated AI Capabilities

Powered by Intel® Core™ Ultra 200S Series processors and Intel® W880 chipset, this platform leverages Intel's advanced CPU, GPU, and NPU integration to deliver exceptional compute performance and AI acceleration at the edge.

6400 MHz DDR5 CSODIMM

Two DDR5 CSODIMM slots support up to 96GB of 6400 MHz memory with ECC (Error Correction Code) technology for superior stability and reliability in industrial applications.

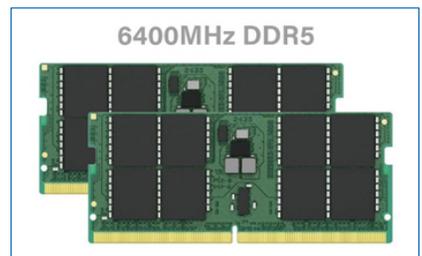


Rich and Expandable I/O

Native I/O and modular I/O expansion, providing high-speed transmission (10 GbE LAN, USB 3.2), industrial I/O (COM, DIO, PS/2), display outputs, and M.2 Key B/M/E slots for wireless communication modules or NVMe SSDs.

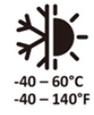
PCI/PCIe with Patented PCIe Card Retainer

Supports up to 2x PCI/PCIe expansion slots (DS-1502) for I/O, image capture, data acquisition, and motion control cards, or a single 130W GPU card (111 × 235 mm). The patented adjustable card retainer secures expansion cards in high-vibration environments, ensuring long-term stable operation.

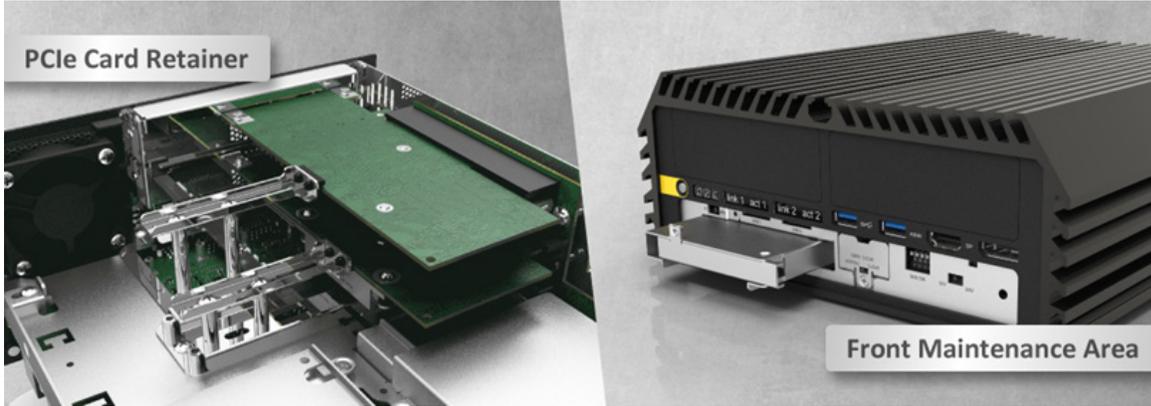


Rugged and Reliable

Industrial-grade protections include wide temperature (-40°C to 60°C) and wide voltage (9 - 48 VDC) support; overvoltage, overcurrent, and ESD protection. Meets US military shock and vibration standard (MIL-STD-810H), as well as rail EMC (EN 50121-3-2) and fire protection (EN 45545-2) standards.

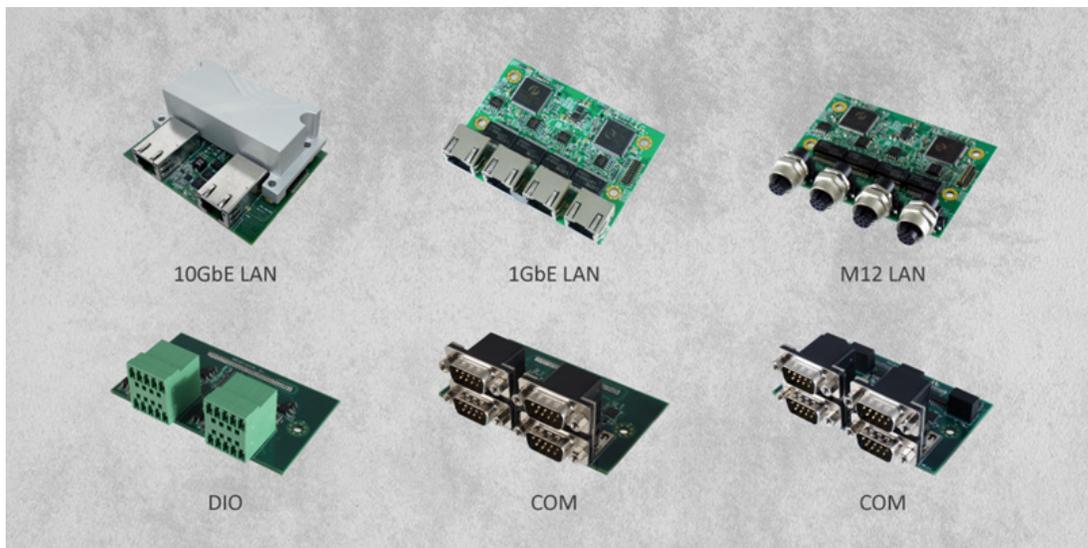


Why choose Cincoze DS-1500 Series?



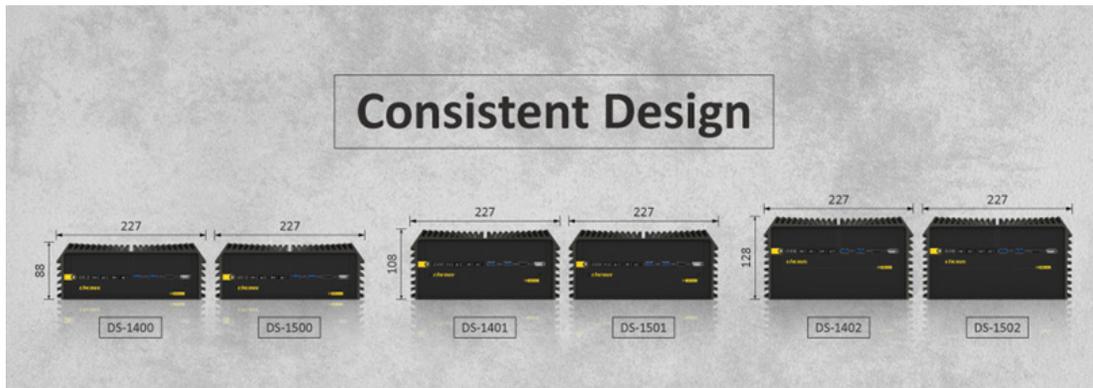
▪ User-Oriented Design Elements to Eliminate Pain Points

To counter the effects of vibrations and the harsh environment at industrial sites, the DS-1500 series features a patented PCIe card retainer (patent number: I773359). It can be flexibly adjusted and securely locked to fit the size of the PCI/PCIe expansion card, ensuring stability during long-term operation. The reset, clear CMOS, AT/ATX power switch, and SIM card slot are all centrally located on the front panel, simplifying operation and maintenance and making daily use more intuitive and efficient.



▪ Flexible Modular Expansion to Accommodate Various Configurations

With Cincoze's unique modular design, users can quickly configure system functions based on actual application requirements at the initial purchase stage, showing high flexibility and deployment convenience. When new I/O or functions are needed as tasks change, they can be easily added through modular design, avoiding complex redesign and high costs.



▪ **Series Continuity to Reduce Upgrade Costs**

The DS-1500 series maintains consistent specifications in form factor, dimensions, and mounting hole. When upgrading to a new generation, users can utilize the existing mechanism and installation design without incurring additional redesign or manufacturing costs. The modules are highly compatible, enabling seamless plug-and-play upgrades that reduce conversion costs and maximize investment returns.

Cincoze High-Performance & PCIe Expandable Industrial Computer

Model	 DS-1500	 DS-1501	 DS-1502
PCI/PCIe Expansion Slot	-	1	2
CPU	Intel® Core™ Ultra 200S Series (Max 65 W TDP)		
Chipset	Intel® W880 Chipset		
Memory	2x DDR5 SODIMM/CSODIMM Sockets, Up to 6400MHz, 96GB		
High-Speed I/O	1x 2.5GbE LAN, 1x 1GbE LAN, 2x 10Gbps USB 3.2 Gen2x1, 1x 5 Gbps USB 3.2 Gen1x1, 2x 480 Mbps USB 2.0		
Expansion Socket	1x M.2 Key M, 3x M.2 Key B, 2x SIM Socket		
Modular Expansion	I/O: 1GbE LAN, 2.5GbE LAN, 10GbE LAN, M12 1GbE LAN, DIO, COM		
	Function: Power over Ethernet (PoE), Power Ignition Sensing (IGN), Trusted Platform Module (TPM)		