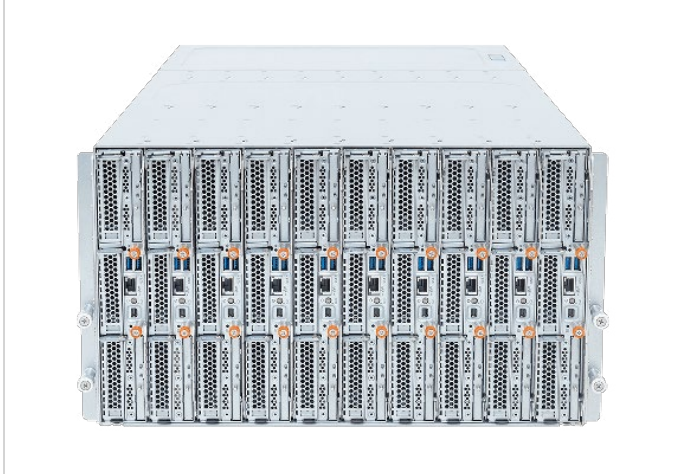


CLOE 10 BR-D

HIGH-DENSITY DLC BLADE PLATFORM

Powered by Intel® Xeon® 6/6+ Series processors



Key Features



19-inch 6U 10 Nodes



Dual Intel® Xeon®
6900E+/6900-series processors



24x DDR5 slots per node
Up to 8800MT/s



3x LP PCIe5 x16 slot per
node



2x E3.S NVMe slot per
node



Direct Liquid Cooling

High-density compute platform

The Cloe 10 BRD DLC packs 10 fully independent, liquid-cooled compute nodes into a single 6U chassis: 20 processors, 240 DIMM slots, and 20 E3.S Gen5 NVMe bays, all front-accessible for easy servicing. Power and cooling are managed centrally, with 6+6 redundant power supplies and a fully integrated DLC manifold keeping every node stable under sustained load.

Designed for hyperscale and cloud-native infrastructure, HPC clusters requiring maximum node density per rack, hybrid and private cloud deployments, high-throughput networking and data analytics, and operators looking to reduce PUE without major facility changes.

Integrated-manifold full-system DLC

The Cloe 10 BRD is a full-system direct liquid cooling solution built around a single integrated manifold, achieving up to 92% Heat Capture Ratio (HCR). Every heat-generating component: CPUs, memory, storage, and PCIe cards; has a dedicated cold plate feeding into the same coolant loop, reducing fan dependency and air-conditioning demand to improve Power Usage Effectiveness (PUE).

Liquid-cooled components run well below CPU TDP, keeping nodes stable and performance consistently high even under sustained load. The manifold design also simplifies servicing: every node is front-accessible without disturbing the cooling loop.

Intel® Xeon® Processors

Intel® Xeon® 6/6+ processors bring a core-optimized architecture to the Cloe 10 BRD DLC, offering Efficient-cores (up to 288 per CPU) for core-dense, power-efficient cloud-native workloads and Performance-cores (up to 128 per CPU) for compute- and AI-intensive applications.

Each node's dual sockets support 12 memory channels with DDR5 RDIMM and MRDIMM, delivering higher frequency and bandwidth for memory-intensive tasks. Built-in on-chip accelerators boost performance and efficiency without added hardware, while PCIe 5.0 (up to 136 lanes per socket) and CXL 2.0 support give flexible I/O and memory expansion across the widest range of data center workloads.

PRODUCT PAGE

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Cloe 10 BR-D DLC

SPECIFICATIONS

System	SKU	BRB-CE10-602-BRD-S2101
	Model	Cloe 10 BR-D DLC
	Form factor	19-inch 6U
	Dimension	447 mm x 900 mm x 262.3 (W x D x H) 17.6" x 35.4" x 10.33" (W x D x H)
Storage	Internal type	None
	External type	Per node: 2x Hot-swap E3.S Gen5 NVMe (PCIe5.0 x4) drive bay [from CPU_0]
	RAID controller	VROC in option
Motherboard	CPU	Supports Intel® Xeon® 6900E+ / 6900-series Processors Per node: Dual Socket BR (LGA 7529). Max TDP up to 500W.
	Chipset	System on Chip
	Expansion slots	Per node: 2 x LP PCIe 5.0 x16 [from CPU_0] 1 x LP PCIe 5.0 x16 [from CPU_1]
	TPM	TPM header with SPI interface (optional TPM2.0 kit available)
	BMC	ASPEED AST2600
Memory	Total slots	Per node: 24x DIMM slot (12 channels per CPU)
	Capacity	Per node: Up to 3TB RDIMM: Max 128GB module MRDIMM: Max 64GB module
	Memory type	RDIMM: up to 6400MT/s (6900-series), 8000MT/s (6900E+) MRDIMM: up to 8800MT/s (6900P)
Network	Onboard	Per node: 1x 1GbE Management Port dedicated to the IPMI
I/O	Front	Per node: 1x RJ45 MLAN port 2x USB 3.2 Gen1 1x Mini-DP 1x Power button LED / UID button / System status LED
	Rear	2x RJ45 MLAN port dedicated to the CMC 1 x CMC status LED
Management solution	Software	WebGUI, IPMI 2.0 and RESTful APIs (Redfish)
	Out of band remote management	iKVM module
Power supply	Type	6+6 3200 W 80 PLUS Titanium redundant power supplies
	Power rating	Per node: ~1.7 kW at 100% Load
Cooling	Chassis	4 Fans 80x80x80mm
	Node	Direct-to-chip cooling (Integrated-manifold full-system DLC)
Operating environment	Operating temperature	10°C ~ 35°C (50°F ~ 95°F)
	Non-operating temperature	-40°C ~ 60°C (40° ~ 140°F)
	Operative relative humidity	8% to 80% (non-condensing)
	Non-operating relative Humidity	20% ~ 90% (non-condensing)
Warranty	2CRSi hardware warranty includes a one year, parts and labour with return to 2CRSi selling entity. Customers may purchase an extended warranty of up to 3 years on parts and labour with different support levels. Please contact 2CRSi at support@2crsi.com or reach your sales point of contact for complete warranty details including limitations and transferability. 2crsi.com/global-location	

Cloe 10 BR-D DLC

BLOCK DIAGRAM (BLADE)

