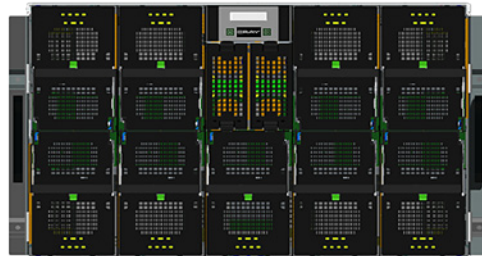


CRAY CX 1000

Cray CX1000-G™ Chassis

- Double-width blade
- Two Intel® Xeon® 5600 series processors
- Two NVIDIA® Tesla® M2050 GPUs
- Up to 48GB or memory per blade with 8GB DDR3 DIMMs
- Two ConnectX adapters providing single QDR IB channel



Cray CX1000-G™ Chassis

The GPU-based Cray CX1000-G chassis delivers nine dual-socket Intel Xeon 5600 blades, each incorporating two NVIDIA Tesla GPUs. Cray CX1000-G chassis allow users to maximize GPU performance with its unique architecture by eliminating I/O bottlenecks – an industry first. These 7U systems include an integrated 36-port QDR InfiniBand switch and a 24-port Gigabit Ethernet switch.

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CX1000-G Chassis Specifications

Form Factor	Chassis	Rack mount 7U chassis
	Blade	9 blades per chassis
Management	Chassis Management Module (CMM)	1 Chassis Management Module (CMM) including: • OPMA board with a microcontroller for drawer management • 24-port 1Gb Ethernet switch / 3 of which are external ports connected to the Ethernet switch • LED for status indicators
	Display	Local Control Panel display on chassis front
Power supply		• Consumption: typical 6.5 KW, max 8.2 KW • 4 hot-swap power blocks (PSU) • N+1 redundancy on power
Cooling		2 fan blades per chassis + 2 fans per server blade
Interconnect	InfiniBand Switch Module (ISM)	Module with 36 QDR ports
Network	Ethernet Switch Module (ESM)	1Gb Ethernet Switch Module for backbone access (optional)
Midplane		Passive board consisting of connectors for 18 server blades, 2 fan blades, ISM, UCM, CMM, ESM, PSUs
Ultracapacitor	Ultra Capacitor Module (UCM)	Ultra Capacitor Module to offset power outages up to 250ms (optional)
Physical specifications	Drawer size (H x W x D)	31.1cm (7U) x 48cm (19") x 74cm (29")
	Weight	126 kg (full, maximum weight with all options)
OS & Cluster Management Software	Linux Support	Red Hat Enterprise Linux 5 & Cray Cluster Manager

CX1000-G Single GPU Blade Specifications (up to 9 blades per chassis)

Form Factor		Double-width blade
Processors		• 2 quad-core Intel Xeon 5600 series processors up to 2.66 GHz (8MB shared L3 cache) • 2 GPUs
Architecture	Chipset	Intel S5520 chipset (Tylersburg IOH-36D) with QPI up to 6.4GT/s
Memory	Memory slots (number, type)	6 DDR3 DIMM sockets
	Memory max	Up to 48GB Reg ECC DDR3 1333MHz (with 4GB DIMMs)
InfiniBand		2 ConnectX adapters providing single QDR IB channel
Management		Integrated Baseboard Management Controller (BMC)
Ethernet		1Gb dual-port Ethernet controller for the links to CMM and ESM
Storage devices	Disk Drives	1 SATA HDD or 1 SSD drive or diskless
Safety	Regulatory compliance	CE (UL, FCC, RoHS)