



ES1640dc-v2-E5-96G (Legacy)

CPU	Intel Xeon E5-2400 v2 family processor Intel Xeon 6-core Processor E5-2420 v2 (15M Cache, 2.20GHz)
CPU Architecture	64-bit x86
Floating Point Unit	Yes
Encryption Engine	Yes (AES-NI)
System Memory	48 GB RDIMM DDR3 ECC (3 x 16 GB) per controller
Memory Slot	3 x RDIMM DDR3 for each controller 32GB Main Memory + 16GB write cache PER CONTROLLER.
Flash Memory	2 GB
Drive Bay	16 x 3.5-inch SAS 12Gb/s, backward-compatible to SAS 6Gb/s
Drive Compatibility	3.5-inch bays: 3.5-inch SAS hard disk drives 2.5-inch SAS hard disk drives 2.5-inch SAS solid state drives
Hot-swappable	Yes
SSD Cache Acceleration Support	Yes
Cache for Copy To Flash (C2F)	1 per each controller (M.2 2280 SSD dedicated to NVRAM, SATA signaling)
Gigabit Ethernet Port (RJ45)	1 for each controller (for remote management)
10 Gigabit Ethernet Port	4 x 10GbE SFP+ (Intel XL710-AM1) and 2 x 10GBASE-T (LAN-10G2T-X550) for each controller
Wake on LAN (WOL)	Yes
Jumbo Frame	Yes

PCIe Slot	PCIe Slot x8 (Gen 3 x8): Pre-installed with a LAN-10G2T-X550 NIC (2 x 10GbE RJ45 ports), replacable with a 40GbE NIC PCIe Slot x4 (Gen 2 x4): Pre-installed with a dual-port Mini-SAS adapter
USB 3.2 Gen 1 port	2 per each controller Note: The USB ports are for engineering purpose only. No external devices such as storage drives or UPS are supported.
Form Factor	3U Rackmount
LED Indicators	System Power LED (Green): on/off System Status (Green/ Orange): in operation, system errors, low power, degraded RAID mode, memory failure, fan/power supply failure, system/disk temperature too high, storage pool reaching threshold value, system performing take-over, power supply unit unplugged LCD Status Display (Two-digit number): Status of JBOD connection
Buttons	Power, Reset
Dimensions (HxWxD)	132 × 446.2 × 618 mm
Weight (Net)	26.75 kg
Weight (Gross)	36.94 kg
Operating Temperature	0 - 40 °C (32°F - 104°F)
Storage Temperature	-20 - 70°C (-4°F - 158°F)
Relative Humidity	5-95% RH non-condensing, wet bulb: 27°C (80.6°F)
Power Supply Unit	Redundant/ Hot Swap Power Vin:90~264VAC;770W
Power Consumption: Operating Mode, Typical	501.4 W Tested with drives fully populated.
Fan	Hot-swappable fan module (60*60*38mm; 16000RPM/12v/2.8A x 3)
System Warning	Buzzer
Standard Warranty	5
Max. Number of Concurrent Connections (CIFS) - with Max. Memory	10000
Safety Standard	FCC Class A (USA only) CE Mark (EN55022 Class A, EN55024) EN60950 BSMI VCCI CB LVD

Note: Use only QNAP memory modules to maintain system performance and stability. For NAS devices with more than one memory slot, use QNAP modules with identical specifications and refer to the hardware user manual to install compatible QNAP memory modules.

Warning: Using unsupported modules may degrade performance, cause errors, or prevent the operating system from starting. QNAP reserves the right to replace partial parts or accessories if the original is no longer available from its manufacturer/supplier.

Any replacement would be fully tested and verified to meet strict compatibility and stability guidelines and will deliver identical performance to the original.

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