



## ES1640dc-v2-E5-96G

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 Long-DIMM DDR3 for each controller
Flash Memory	2 GB
Drive Bay	16 x 3.5-inch
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
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
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)
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
Fan	Hot-swappable fan module (60*60*38mm; 16000RPM/12v/2.8A x 3)
Sound Level	66.1 db(A)
System Warning	Buzzer
Max. Number of Concurrent Connections (CIFS)	1500
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. Warning: Using unsupported modules may degrade performance, cause errors, or prevent the operating system from starting.

\* Sound Level Test Environment: Refer to ISO 7779; Maximum HDD loaded; Bystander Position; Average data from 1 meter in front of operating NAS.

Designs and specifications are subject to change without notice.