



## QNAP ES1686DC NAS Rack (3U) Intel® Xeon® D D-2142IT 48 GB DDR4 0 TB QNAP Enterprise System Black



Brand : QNAP

Product code: ES1686DC-2142IT-96G-CA

Product name : ES1686DC

Intel Xeon D-2142IT, 48 GB DDR4, 16 x 3.5-inch, RJ45 x 3, SFP+ x 4, PCIe x 2, USB 3.0 x 2, 3U QNAP ES1686DC. Type: NAS. Chassis type: Rack (3U). Device class: Large Enterprise Business. Processor family: Intel® Xeon® D, Processor model: D-2142IT, Processor frequency: 1.9 GHz. Internal memory: 48 GB, Internal memory type: DDR4. Total installed storage capacity: 0 TB. Operating system installed: QNAP Enterprise System

Storage		Performance	
Storage drive capacity *	0 GB	Web-based management	✓
Storage drive sizes supported	2.5,3.5"	Security algorithms	256-bit AES, FIPS 140-2, HTTPS, SSH, SSL/TLS
Number of M.2 (M & B) slots	2	Access Control List (ACL)	✓
RAID support *	✓	Reset button	✓
RAID levels	0, 1, 5, 6, 10, 50, 60	On/off switch	✓
Hot-swap drive bays	✓	Built-in FTP server	✓
Supported file systems	ZFS	Browser supported	Apple Safari, Google Chrome, Microsoft Internet Explorer, Mozilla Firefox
Storage drives installed *	✗	Hot spare	✓
Total installed storage capacity *	0 TB	S.M.A.R.T. support	✓
Number of storage drives supported *	16		
Supported storage drive types *	HDD & SSD		
Processor		Software	
Processor manufacturer *	Intel	Operating system installed *	QNAP Enterprise System
Processor family *	Intel® Xeon® D	Windows operating systems supported	Windows 10, Windows 7, Windows 8
Processor model *	D-2142IT	Linux operating systems supported	✓
Processor frequency *	1.9 GHz	Mac operating systems supported	✓
Processor boost frequency	3 GHz	Server operating systems supported	Windows Server 2008 R2, Windows Server 2012, Windows Server 2012 R2, Windows Server 2016
Processor cores	8		
Processor threads	16		
Processor cache	11 MB		
Bus type	UPI		
CPU configuration (max)	1		
PCI Express slots version	3.0		
Processor code	SR3ZZ		
Processor codename	Skylake		
Processor lithography	14 nm		
Processor operating modes	64-bit		
Processor socket	BGA 2518		
Scalability	1S		
Stepping	M1		
Thermal Design Power (TDP)	65 W		
Maximum internal memory supported by processor	512 GB		
Conflict-Free processor	✓		
		Power	
		Power supply location	Built-in
		Power supply unit (PSU) capacity	770 W
		Number of power supply units	1
		Redundant power supply (RPS) support	✓
		Power consumption (typical)	500.87 W
		AC input voltage	90 - 264 V
		Fan voltage	12 V
		Weight & dimensions	
		Width *	483.1 mm
		Depth *	630.6 mm
		Height *	132 mm

Memory		Packaging content	
Internal memory *	48 GB	Cables included	AC, LAN (RJ-45)
Internal memory type	DDR4	Quick installation guide	✓
Maximum RAM supported	512 GB	Rack mount kit	✓
Memory slots	8	Number of screws	128
Memory form factor	RDIMM/LRDIMM	<b>Processor special features</b>	
Flash memory	4000 MB	Embedded options available	✓
<b>Network</b>		Enhanced Intel SpeedStep Technology	✓
Ethernet LAN *	✓	Execute Disable Bit	✓
Ethernet LAN data rates	1000,10000 Mbit/s	Idle States	✓
Ethernet LAN data rate supported (max)	10000 Mbit/s	Intel 64	✓
Wi-Fi	✗	Intel Enhanced Halt State	✓
Jumbo frames support	✓	Intel QuickAssist Technology	✗
iSCSI support	✓	Intel Secure Key Technology version	1.00
Wake-on-LAN ready	✓	Intel Trusted Execution Technology	✓
Supported network protocols	TCP/IP, IPv4, IPv6, CIFS/SMB2/SMB3, NFS v3/NFS v4, FTP, FTPS, TFTP, HTTP, HTTPS, SSH, iSCSI, SNMP, SMTP, SMC	Intel TSX-NI	✓
Link aggregation	✓	Intel TSX-NI version	1.00
<b>Ports &amp; interfaces</b>		Intel Virtualization Technology (VT-x)	✓
USB port *	✓	Intel Virtualization Technology for Directed I/O (VT-d)	✓
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity	2	Intel VT-x with Extended Page Tables (EPT)	✓
Fiber ports quantity	4	Intel® AES New Instructions (Intel® AES-NI)	✓
Fiber optic connector	SFP+	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Ethernet LAN (RJ-45) ports *	3	Intel® OS Guard	✓
PCI Express x8 (Gen 3.x) slots	2	Intel® Secure Key	✓
<b>Design</b>		Intel® Turbo Boost Technology	2.0
Chassis type *	Rack (3U)	Maximum number of PCI Express lanes	32
Cooling type *	Active	Thermal Monitoring Technologies	✓
Product colour	Black	Memory types supported by processor	DDR4-SDRAM
Number of fans	3 fan(s)	<b>Operational conditions</b>	
Fan diameter	6 cm	Operating temperature (T-T)	0 - 40 °C
LED indicators	✓	Operating relative humidity (H-H)	5 - 95%
<b>Performance</b>		<b>Other features</b>	
Type *	NAS	Certification	FCC A (USA) CE ( EN55022 A, EN55024) EN60950 BSMI VCCI CB LVD
Device class *	Large Enterprise Business	Processor ARK ID	136432
Backup function *	✓		
Backup features	Cloud, iSCSI LUN		
Multilingual support	✓		
Noise level	55.8 dB		
Snapshot	✓		

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