

Synology 2012 Product Specs

XS SERIES ● + SERIES ●

RS3412xs/RS3412RPxs DS3612xs RS2212+/RS2212RP+ RS812+/RS812RP+ DS2413+

DiskStation/
RackStation



Performance(MB/sec)	Read : 1676.7 MB/sec ⁽¹⁾ Write : 1077.46 MB/sec	Read : 1958.76 MB/sec ⁽⁴⁾ Write : 1086.37 MB/sec	Read : 200.73 MB/sec ⁽⁵⁾ Write : 194.32 MB/sec	Read : 202.31 MB/sec ⁽⁵⁾ Write : 175.11 MB/sec	Read : 201.03 MB/sec ⁽⁵⁾ Write : 196.87 MB/sec
CPU Frequency	Dual Core 3.1 GHz	Dual Core 3.1 GHz	Dual Core 2.13 GHz	Dual Core 2.13 GHz	Dual Core 2.13GHz
Floating Point	Yes	Yes	Yes	Yes	Yes
Hardware Encryption Engine	No	No	No	No	No
RAM	DDR3 2GB ECC (Up to 6GB)	DDR3 2GB ECC (Up to 6GB)	1GB DDR3 (Up to 3GB)	1GB DDR3 (Up to 3GB)	2GB DDR3 (Up to 4GB)
Internal HDD Interface	10X SATA(II)	12X SATA(II)	10X SATA(II)	4X SATA(II)	12X SATA(II)
External Device Interface	4X USB 2.0, 2X Expansion port ⁽⁷⁾	4X USB 2.0, 2X Expansion port ⁽⁷⁾	4X USB 2.0, 1X Expansion port ⁽⁷⁾	2X USB 2.0, 1X eSATA	2X USB 3.0, 4X USB 2.0, 1X Expansion port ⁽⁷⁾
MAX HDD Support ⁽¹⁾	4TB	4TB	4TB	4TB	4TB
Size (mm) (HxWxD)	88 X 445 X 570	310 X 300 X 340	88 X 445 X 570	44 X 430.5 X 457.5/570.5	270 X 300 X 340
Gigabit LAN	4 (additional 2X 10GbE)	4 (additional 2X 10GbE)	2	2	2
Power Consumption ⁽²⁾	Access : 115.5W HDD Hibernation : 57.2W	Access : 132W HDD Hibernation : 57.2W	Access : 88W HDD Hibernation : 36W	Access : 46.2W HDD Hibernation : 25.3W	Access : 111.1W HDD Hibernation : 41.8W
Scheduled Power On/Off	Yes	Yes	Yes	Yes	Yes
Hot Swappable HDD	Yes	Yes	Yes	Yes	Yes
File System	EXT4, EXT3(External Disk Only), FAT(External Disk Only), NTFS(External Disk Only)				
Networking Protocols	CIFS, AFP, FTP, Telnet, SSH, NFS, iSCSI, WebDAV				
Volume Type	Basic, JBOD, RAID 0/1/5/6/10, RAID 5+Spares, SHR				
Windows AD Support	Yes	Yes	Yes	Yes	Yes
MAX IP Camera # ⁽³⁾	50	50	20	20	20
MAX User Accounts	4,096	4,096	2,048	2,048	2,048
MAX Groups	512	512	256	256	256
MAX Concurrent Connections (Samba, FTP, AFP)	1,024	1,024	512	512	512
Warranty (years)	3				

DS1812+ DS1512+ DS712+ DS412+ DS213+ DS112+

DiskStation/
RackStation



Performance(MB/sec)	Read : 199.53 MB/sec ⁽⁵⁾ Write : 193.20 MB/sec	Read : 198.66 MB/sec ⁽⁵⁾ Write : 189.30 MB/sec	Read : 181.99 MB/sec ⁽⁵⁾ Write : 106.69 MB/sec	Read : 205.68 MB/sec ⁽⁵⁾ Write : 182.66 MB/sec	Read : 110.36 MB/sec Write : 84.31 MB/sec	Read : 107.92 MB/sec Write : 76.66 MB/sec
CPU Frequency	Dual Core 2.13 GHz	Dual Core 2.13 GHz	1.8 GHz	Dual Core 2.13 GHz	Dual Core 1.067GHz	2.0 GHz
Floating Point	Yes	Yes	Yes	Yes	Yes	No
Hardware Encryption Engine	No	No	No	No	Yes	Yes
RAM	1GB DDR3 (Up to 3GB)	1GB DDR3 (Up to 3GB)	1GB DDR3	1GB DDR3	512MB DDR3	512MB DDR3
Internal HDD Interface	8X SATA(II)	5X SATA(II)	2X SATA(II)	4X SATA(II)	2X SATA(II)	1X SATA(II)
External Device Interface	2X USB 3.0, 4X USB 2.0, 2X eSATA	2X USB 3.0, 4X USB 2.0, 2X eSATA	3X USB 2.0, 1X eSATA	2X USB 3.0, 1X USB 2.0, 1X eSATA	2X USB 3.0, 1X USB 2.0, 1X eSATA, 1X SD card	2X USB 3.0, 1X eSATA
MAX HDD Support ⁽¹⁾	4TB	4TB	4TB	4TB	4TB	4TB
Size (mm) (HxWxD)	157 X 340 X 233	157 X 248 X 233	157 X 103.5 X 232	165 X 203 X 233.2	165 X 108 X 233.2	166 X 71 X 224
Gigabit LAN	2	2	2	2	1	1
Power Consumption ⁽²⁾	Access : 71.5W HDD Hibernation : 28.6W	Access : 50.6W HDD Hibernation : 22W	Access : 27.5W HDD Hibernation : 17.6W	Access : 44W HDD Hibernation : 15W	Access : 22.2W System Hibernation : 2.64W	Access : 14.6W HDD Hibernation : 6.34W
Scheduled Power On/Off	Yes	Yes	Yes	Yes	Yes	Yes
Hot Swappable HDD	Yes	Yes	Yes	Yes	Yes	Yes
File System	EXT4, EXT3(External Disk Only), FAT(External Disk Only), NTFS(External Disk Only)					
Networking Protocols	CIFS, AFP, FTP, Telnet, SSH, NFS, iSCSI, WebDAV					
Volume Type	Basic, JBOD, RAID 0/1/5/6/10, RAID 5+Spares, SHR ⁽⁶⁾			Basic, JBOD, RAID 0/1, SHR		Basic
Windows AD Support	Yes	Yes	Yes	Yes	Yes	Yes
MAX IP Camera # ⁽³⁾	20	20	16	20	12	12
MAX User Accounts	2,048	2,048	2,048	2,048	2,048	2,048
MAX Groups	256	256	256	256	256	256
MAX Concurrent Connections (Samba, FTP, AFP)	512	512	512	512	256	256
Warranty (years)	3			2		

(1) HDD not included. Check www.synology.com for compatible HDD models.

(2) The power consumption value is for reference only and will vary with hard drive models and capacity.






(3) 1 free license to install 1 IP camera. Additional licenses can be purchased to expand the license quota.






(4) The performance figures were tested with two 10GbE connections under Link Aggregation. For more detailed testing numbers please visit www.synology.com






(5) The performance figures were tested under Link Aggregation.


(6) Synology DiskStation DS712+ supports RAID 5/6/10/5+Spares only with Synology DX513.


(7) Expansion port carries 12Gb/s SATA signal.


	RS812	DS413	RS212	DS213	DS112
DiskStation/ RackStation					
Performance (MB/sec)	Read : 107.74 MB/sec Write : 54.27 MB/sec	Read : 111.12 MB/sec Write : 80.86 MB/sec	Read : 108.07 MB/sec Write : 61.05 MB/sec	Read : 108.41 MB/sec Write : 65.36 MB/sec	Read : 110.19 MB/sec Write : 71.84 MB/sec
CPU Frequency	1.6 GHz	Dual Core 1.067GHz	1.6 GHz	2.0 GHz	1.6 GHz
Floating Point	No	Yes	No	No	No
Hardware Encryption Engine	Yes	Yes	Yes	Yes	Yes
RAM	512MB DDR3	1GB DDR3	256MB DDR3	512MB DDR3	256MB DDR3
Internal HDD Interface	4X SATA(II)	4X SATA(II)	2X SATA(II)	2X SATA(II)	1X SATA(II)
External Device Interface	2X USB 2.0, 1X eSATA	2X USB 3.0, 1X USB 2.0, 1XeSATA	2X USB 2.0, 1X eSATA	2X USB 3.0, 1X USB 2.0, 1X SD card	2X USB 3.0, 1X eSATA
MAX HDD Support⁽¹⁾	4TB	4TB	4TB	4TB	4TB
Size (mm) (HxWxD)	44 X 430.5 X 457.5	165 X 203 X 233.2	44 X 430.5 X 287.5	165 X 108 X 233.2	160 X 71 X 224
Gigabit LAN	2	1	2	1	1
Power Consumption⁽²⁾	Access : 37W HDD Hibernation : 14.3W	Access : 35.62W System Hibernation : 3.37W	Access : 25.3W HDD Hibernation : 16.5W	Access : 18.48W HDD Hibernation : 8.28W	Access : 13.2W HDD Hibernation : 5.04W
Scheduled Power On/Off	Yes	Yes	Yes	Yes	Yes
Hot Swappable HDD	Yes	Yes	Yes	Yes	No
File System	EXT4, EXT3(External Disk Only), FAT(External Disk Only), NTFS(External Disk Only)				
Networking Protocols	CIFS, AFP, FTP, Telnet, SSH, NFS, iSCSI, WebDAV				
Volume Type	Basic, JBOD, RAID 0/1/5/6/10, RAID 5+Spare, SHR		Basic, JBOD, RAID 0/1, SHR		Basic
Windows AD Support	Yes	Yes	Yes	Yes	Yes
MAX IP Camera #⁽³⁾	12	12	8	8	8
MAX User Accounts	2,048	2,048	2,048	2,048	2,048
MAX Groups	256	256	256	256	256
MAX Concurrent Connections (Samba, FTP, AFP)	256	256	128	128	128
Warranty (years)	3	2	3		2

	DS213air	DS411slim	DS413j	DS212j	DS112j
DiskStation/ RackStation					
Performance (MB/sec)	Read : 108.07 MB/sec Write : 58.66 MB/sec	Read : 103.39 MB/sec Write : 53.99 MB/sec	Read : 108.19 MB/sec Write : 53.29 MB/sec	Read : 92.16 MB/sec Write : 50.20 MB/sec	Read : 80.90 MB/sec Write : 50.74 MB/sec
CPU Frequency	1.6 GHz	1.6 GHz	1.6GHz	1.2 GHz	1.0 GHz
Floating Point	No	No	No	No	No
Hardware Encryption Engine	Yes	Yes	Yes	Yes	Yes
RAM	256MB DDR3	256MB DDR3	512MB DDR3	256MB DDR2	128MB DDR2
Internal HDD Interface	2X SATA(II)	4X 2.5" SATA(II)	4X SATA(II)	2X SATA(II)	1X SATA(II)
External Device Interface	2X USB 3.0	2X USB 2.0, 1X eSATA	2X USB 2.0	2X USB 2.0	2X USB 2.0
MAX HDD Support⁽¹⁾	4TB	1TB	4TB	4TB	4TB
Size (mm) (HxWxD)	165 x 100 x 225.5	120 X 105 X 142	184 X 168 X 230	165 X 100 X 225.5	166 X 71 X 224
Gigabit LAN	1	1	1	1	1
Power Consumption⁽²⁾	Access : 22.44W HDD Hibernation : 5.76W	Access : 16.8W HDD Hibernation : 9.6W	Access : 31.56W HDD Hibernation : 7.68W	Access : 17.6W HDD Hibernation : 5.5W	Access : 12.1W HDD Hibernation : 4.4W
Scheduled Power On/Off	Yes	Yes	Yes	No	Yes
Hot Swappable HDD	No	No, Easy-Replacement	No	No	No
File System	EXT4, EXT3(External Disk Only), FAT(External Disk Only), NTFS(External Disk Only)				
Networking Protocols	CIFS, AFP, FTP, Telnet, SSH, NFS, iSCSI, WebDAV				
Volume Type	Basic, JBOD, RAID 0/1, SHR	Basic, JBOD, RAID 0/1/5/6/10, RAID 5+Spare, SHR		Basic, JBOD, RAID 0/1, SHR	Basic
Windows AD Support	Yes	Yes	Yes	Yes	Yes
MAX IP Camera #⁽³⁾	8	8	5	5	5
MAX User Accounts	2,048	2,048	1,024	512	512
MAX Groups	256	256	256	128	128
MAX Concurrent Connections (Samba, FTP, AFP)	128	128	128	64	64
Warranty (years)			2		

	RX1211/RX1211RP	DX1211	DX513	RX410	DX213
Expansion unit⁽⁴⁾					
Internal HDD	12X SATA(II)	12X SATA(II)	5X SATA(II)	4X SATA(II)	2X SATA(II)
MAX HDD Support⁽¹⁾	4TB	4TB	4TB	4TB	4TB
Size (mm) (HxWxD)	88X 445 X 570	270 X 300 X 340	157 X 248 X 233	44 X 430.5 X 457.5	165 X 100 X 225.5
Volume Type	Basic, JBOD, RAID 0, RAID 1, RAID 5, RAID 5+Spare, RAID 6, RAID 10, SHR				

	VS80
VisualStation	
External Device Interface	2X USB
LAN	1X 10/100 Mbps
Video Output	1X VGA
Audio Output	1X 3.5mm Stereo Audio Jack
Display Mode	2x2, 3x2 or 3x3 panels
MAX Camera Resolution	4, 6 channel D1 : (640x480 in VGA, 720x480 in NTSC, 720x576 in PAL) 9 channel CIF : (320x240 in VGA, 352x240 in NTSC, 352x288 in PAL)
Size (mm) (HxWxD)	160 X 63 X 218

	USB Station 2
USB Station 2	
External HDD Interface	2X USB
USB 2.0 port	2
Max Capacity (External HDD)	3TB X2
LAN	Gigabit X1
File System	EXT4/EXT3/FAT32/ NTFS
Printing Protocol Support	LPR / CIFS / Apple Talk
Max Printer Support	2
Size (mm) (HxWxD)	46 X 122 X 111

	Remote
Synology Remote	
Size (mm) (DxWxH)	115 X 55 X 14.3
Weight (g)	55
Audio Output Options	3.5mm Stereo Audio Jack, S/PDIF, USB Interface
Transmission Distance	30m

(1) HDD not included. Check www.synology.com for compatible HDD models.
(2) The power consumption value is for reference only and will vary with hard drive models and capacity.

(3) 1 free license to install 1 IP camera. Additional licenses can be purchased to expand the license quota.
(4) For more information on applied models, please visit www.synology.com