

What network ports are used by Synology services?

Please refer to the following list:

Setup Utilities		
Type	Port Number	Protocol
Synology Assistant	9999, 9998, 9997	UDP
Backup		
Type	Port Number	Protocol
Data Replicator, Data Replicator II, Data Replicator III	9999, 9998, 9997, 137, 138, 139, 445	TCP
DSM 5.2 Data Backup, rsync, Shared Folder Sync, Remote Time Backup	873, 22 (if encrypted over SSH)	TCP
Hyper Backup Vault, DSM 5.2 Archiving Backup	6281	TCP
LUN Backup	3260 (iSCSI), 873, 22 (if encrypted over SSH)	TCP
Snapshot Replication	3261 (iSCSI LUN), 5566 (Shared Folder)	TCP
Download		
Type	Port Number	Protocol
BT	6890 ~ 6999 (for models with firmware earlier than v2.0.1-3.0401); 16881 (for models with DSM v2.0.1 and onward)	TCP/UDP
eMule	4662 (TCP), 4672 (UDP)	TCP/UDP
Web Applications		
Type	Port Number	Protocol
DSM	5000 (HTTP), 5001 (HTTPS)	TCP
File Station	5000 (HTTP, additional port can be added), 5001 (HTTPS, additional port can be added)	TCP
Mail Server		
Type	Port Number	Protocol
IMAP	143	TCP
IMAP over SSL/TLS	993	TCP
POP3	110	TCP
POP3 over SSL/TLS	995	TCP
File Transferring		
Type	Port Number	Protocol
AFP	548	TCP
CIFS	smbd: 139 (netbios-ssn), 445 (microsoft-ds)	TCP/UDP
	Nmbd: 137, 138	UDP
FTP, FTP over SSL, FTP over TLS	21 (command), 20 (Data connection in Active Mode), 1025-65535 (Data connection in Passive Mode; however, the default range varies with models)	TCP
iSCSI	3260	TCP
NFS	111, 892, 2049	TCP/UDP
TFTP	69	UDP
WebDAV, CalDAV	5005, 5006 (HTTPS)	TCP
Packages		
Type	Port Number	Protocol
Audio Station	1900 (UDP), 5000 (HTTP, additional port can be added), 5001 (HTTPS, additional port can be added), 5353 (Bonjour)	TCP/UDP

	Service), 6001-6010 (AirPlay control/timing)	
Calendar	38008 , 38443	CalDAV
CardDAV	8008 (HTTP), 8443 (HTTPS)	TCP
Central Management System (CMS)	5000 (HTTP), 5001 (HTTPS)	TCP
CIFS Scale-out Cluster	49152-49252 TCP only: 17909, 17913, 19998, 24007, 24008, 24009-24045, 38465-38501, 4379	TCP/UDP
Cloud Station	6690	TCP
DHCP Server	67, 68	UDP
Directory Server	389 (LDAP), 636 (LDAP with SSL)	TCP
Download Station	5000	TCP
Drive	5000 (HTTP), 5001 (HTTPS), 6690	TCP
iTunes Server	3689	TCP
Logitech® Media Server	3483, 9002	TCP
Mail Station	80 (HTTP), 443 (HTTPS)	TCP
Media Server	1900 (UPnP), 50001 (Content browsing), 50002 (Content streaming)	TCP/UDP
Moments	5000 (HTTP), 5001 (HTTPS)	TCP
Note Station	5000 (HTTP), 5001 (HTTPS)	TCP
Photo Station, Web Station	80 (additional port can be added), 443 (HTTPS)	TCP
Presto File Server	3360 (TCP/UDP), 3361 (TCP/UDP)	TCP/UDP
Proxy Server	3128	TCP
Surveillance Station	9900 (HTTP), 9901 (HTTPS)	TCP
Syslog Server	514 (additional port can be added)	TCP/UDP
Video Station	1900 (UDP), 5000 (HTTP), 5001 (HTTPS), 9025-9040, 5002, 5004, 65001 (for using the HDHomeRun network tuner)	TCP/UDP
Virtual Machine Manager	2379-2382 (Cluster Network), 3260-3264 (iSCSI), 16509, 16514, 30200-30300	TCP
VPN Server (OpenVPN)	1194	UDP
VPN Server (PPTP)	1723	TCP
VPN Server (L2TP/IPSec)	500, 1701, 4500	UDP
Mobile Applications		
Type	Port Number	Protocol
Drive	5000 (HTTP), 5001 (HTTPS)	TCP
DS audio	5000, 5001 (HTTPS)	TCP
DS cam	5000, 5001 (HTTPS)	TCP
DS cloud	6690	TCP
DS download	5000 (HTTP), 5001 (HTTPS)	TCP
DS file	Android: <ul style="list-style-type: none"> ▪ DS file 4.x and a DiskStation running DSM 4.3 and later: 5000, 5001 (HTTPS) ▪ DS file version prior to 4.0 or a DiskStation running DSM 4.2 or earlier: 5005, 5006 (HTTPS) 	TCP
	iOS: <ul style="list-style-type: none"> ▪ DS file 5.x and a DiskStation running DSM 4.3 and later: 5000, 5001 (HTTPS) ▪ DS file version prior to 4.0 or a DiskStation running DSM 4.2 or earlier: 5005, 5006 (HTTPS) 	
	Windows Phone: 5000, 5001 (HTTPS)	
DS finder	5000 (HTTP), 5001 (HTTPS)	TCP

DS note	5000 (HTTP), 5001 (HTTPS)	TCP
DS photo	80, 443 (HTTPS)	TCP
DS video	5000 (HTTP), 5001 (HTTPS)	TCP
Moments	5000 (HTTP), 5001 (HTTPS)	TCP
Printers, UPS and Peripheral Equipments		
Type	Port Number	Protocol
Bonjour	5353	UDP
LPR	515	UDP
Network Printer (IPP)/CUPS	631	TCP
Network MFP	3240-3259	TCP
UPS	3493	TCP
System		
Type	Port Number	Protocol
LDAP	389, 636 (SLAPD)	TCP
MySQL	3306	TCP
Resource Monitor/SNMP	161	TCP/UDP
SSH/SFTP	22	TCP
Telnet	23	TCP