

## TS-212 Turbo NAS – Specifications

### Hardware Spec.

CPU	Marvell 6281 1.2GHz
DRAM	256MB DDRII RAM
Flash Memory	16MB
Hard Disk Drive	2 x 3.5" SATA I/II hard disk drive (HDD) NOTE: <ol style="list-style-type: none"><li>1. The system is shipped without hard disk drives.</li><li>2. For the HDD compatibility list, please visit <a href="http://www.qnap.com/pro_compatibility.asp">http://www.qnap.com/pro_compatibility.asp</a></li></ol>
LAN Port	1 x Gigabit RJ-45 Ethernet port
LED Indicators	USB, Status, HDD1, HDD2, LAN ,Power
USB	3 x USB 2.0 port (front: 1; back: 2) Support USB printer, pen drive, USB hub, and USB UPS etc.
Buttons	System: Power button, One touch copy button, Reset button
Alarm Buzzer	System warning
Form Factor	Portable
Dimensions	165.5 (H) x 85 (W) x 218.4 (D) mm 6.52 (H) x 3.35 (W) x 8.60(D) inch
Weight	Net weight: 0.91 kg/ 2.01 lb Gross weight: 1.9 kg/ 4.19 lb
Power Consumption (W)	Sleep mode: 6W In operation: 13W (with 2 x 500GB HDD installed)
Temperature	0-40°C
Humidity	0-95% R.H.
Power	External Power Adapter, 60W, 100-240V
Secure Design	K-lock security slot for theft prevention
Fan	1 x quiet cooling fan (6cm, 12V DC)



Software Spec.

### Operating System

- Embedded Linux

### Supported Operating System

- Microsoft Windows 2000, XP, Vista (32/ 64 bit), Windows 7 (32/ 64 bit), Windows Server 2003/ 2008
- Apple Mac OS X
- Linux & Unix

### Supported Web Browsers

- Internet Explorer 7 & 8 or later
- Firefox 3 or later
- Safari 3 & 4 or later
- Google Chrome

### Multilingual Support

- Chinese (Traditional & Simplified), Czech, Danish, Dutch, English, Finnish, French, German, Italian, Japanese, Korean, Norwegian, Polish, Russian, Spanish, Swedish, Turkish.

### File System

### Power Management

- Scheduled Power on/off (Max 15 settings)
- Automatic Power on after Power Recovery

### Access Right Management

- Max User Accounts: 2,048
- Max Groups: 256
- Max. Share Folder: 256
- Batch Creating Users
- Import/ Export User
- User Quota Management
- Subfolder Permissions Support

### Windows AD Support

- Domain Users Login via CIFS/SMB, AFP, FTP and Web File Manager
- Supports NTLMv2 Authentication

### Web Administration

- AJAX-based User Interface
- HTTP/HTTPS Connections
- Alert Notification (Email & SMS)
- Smart Fan Control

- Internal HDD: EXT3, EXT4
- External HDD: EXT3, EXT4, NTFS, FAT32, HFS+

### **Networking**

- TCP/IP (IPv4 & IPv6: Dual Stack)
- Dual Gigabit NICs with Jumbo Frame
- Multi-IP Setting, Port Trunking/ NIC Teaming (Modes: Balance-rr, Active Backup, Balance XOR, Broadcast, IEEE 802.3ad/ Link Aggregation, Balance-tlb and Balance-alb.)
- DHCP Client, DHCP Server
- Protocols: CIFS/SMB, AFP (3.1), NFS, FTP, HTTP, HTTPS, Telnet, SSH, iSCSI and SNMP.
- Network Service Discovery (UPnP, Bonjour)
- USB Wi-Fi 802.11n Adapter Support (Optional Purchase)

### **Network File Sharing**

- CIFS/SMB (Plus DFS Support)
- AFP
- NFS
- FTP
- WebDAV

### **Backup Solution**

- USB One Touch Backup (Import/Export)
- Apple Time Machine Support with Backup Management
- Block-level Remote Replication
  - Work as Both Rsync Server & Client
  - Supports Encrypted Replication between QNAP NAS Servers
- Back up to External Storage Device
- Back up to Cloud Storage (Amazon S3 & ElephantDrive)

### **Security**

- IP Filter & Policy-based Automatic IP

- DDNS & MyCloudNAS Remote Access
- SNMP (v2 & v3)
- UPS Support with SNMP Management (USB)
- Supports Network UPS
- Resource Monitor
- Network Recycle Bin for CIFS/SMB and AFP
- Comprehensive Logs (Events & Connection)
- Real-time Online User List
- Syslog Client
- Firmware Update with Live Update Notification
- Backup and Restore System Settings
- Restore to Factory Default

### **Applications**

- Web File Manager
- Multimedia Station
- Download Station
- Surveillance Station
- iTunes Server
- Apache Web Server
- MySQL Server

### **Mobile App**

- QMobile for iPhone/ iPad/ Android
- 3rd Party UPnP Media Player

### **QPKG**

- Web Applications
  - Joomla!
  - phpMyAdmin
  - WordPress
  - AjaXplorer
  - vtigerCRM
  - eyeOS
  - Magento
  - GLPI
- P2P Applications
  - MLDonkey (eMule)
  - SABnzbd+
  - NZBGet
- Server Applications

- Blocking
- Network Access Protection with Auto-blocking
- Encrypted Access: HTTPS, FTP with SSL/TLS (Explicit), SSH/ SFTP (admin only), Encrypted Remote Replication (Rsync over SSH)
- CIFS Host Access Control for Shared Folders
- Importable SSL Certificate
- Instant Alert via E-mail, SMS
- Asterisk
- XDove (Mail Server)
- OpenLDAP
- Media Server
  - Squeezebox Server
  - IceStation
- Misc.
  - Optware IPKG
  - Python
  - iStat

...and more

## Disk Management

- Single Disk, JBOD, RAID 0 / 1
- Bad Block Scan & HDD S.M.A.R.T
- RAID Recovery
- Bitmap Support
- Supports ISO Mounting (via Web File Manager)

## iSCSI (IP SAN)

- iSCSI Target
  - Multi-LUNs per Target
  - Up to 256 LUNs
  - Supports LUN Mapping & Masking
  - Supports SPC-3 Persistent Reservation
  - Supports MPIO & MC/S
- Virtual Disk Drive (via iSCSI Initiator)
  - Stack Chaining Master
  - Max. Virtual Disk Drives: 8

Powerful All-in-one server

## File Server

- File Sharing Across Windows, Mac OS and Linux/ Unix Platforms
- Protocols: CIFS/SMB, AFP(3.1), NFS, FTP, HTTP, HTTPS
- QNAP Web File Manager
  - Supports ISO Mounting
  - Direct File Viewing via

## Printer Server

- Network Printer Sharing (USB)
- Max Printers: 3
- Supports Internet Printing Protocol
- Supports Apple Bonjour Printing
- Advanced Printer Management
  - Displays and Manages the Print Jobs
  - Access Right Control (IP & Domain Names)

**FTP Server**

- FTP over SSL/TLS (Explicit)
- Max Concurrent Connections: 256
- FXP Supported
- Passive FTP Port Range Control
- FTP Bandwidth & Connection Control
- Unicode Support

**Web Server**

- HTTP/ HTTPS Connections
- Supports WebDAV Connection
- Supports Virtual Host
- Importable SSL Certificate

**Database Server**

- Built-in MySQL Server
- Web-based Management via phpMyAdmin (QPKG)

**Backup Server**

- Remote Replication Server (over Rsync)
- Apple Time Machine Support
- QNAP Client Backup Application-NetBak Replicator
- 3rd Party Backup Software Support: Acronis True Image, CA Brightstor, ARCserve Backup, EMC Retrospect, Symantec Backup Exec, LaCie Silverkeeper

**iTunes Server**

- Audio and Video Sharing
- Smart Playlist for iTunes Client (Windows & Mac OS)

**UPnP Media Server**

- Built-in TwonkyMedia Server

- Supports Photo, Audio and Video
- Image Slide Show and Rotation
- Automatic & Schedule Thumbnail Generation for Easy Browsing
- Display Photo Details from EXIF: Date, Exposure Time, Aperture, etc.
- Display Audio Details from ID3 Tag: Album Cover, Title, Artist, Album, etc.
- Access Authority Management
- Multimedia (Video & Audio) Streaming
- Supports Cooliris
- Supports Web Publishing (Facebook, MySpace, MSN Live, Twitter, Plurk, Blogger)
- Supports E-mail Publishing
- Supported Formats:
  - Photo - JPG/JPEG, GIF, PNG
  - Audio - MP3
  - Video
    - Playback: FLV, MPEG-4 Video (H.264 + AAC)
    - Transcode: AVI, M4V, MPG/MPEG, RM/RMVB, WMV
- QNAP Exclusive iPhone & iPad App - QMobile

**Download Station**

- PC-less BitTorrent/ FTP/ HTTP Download (up to 500 tasks)
- BitTorrent Download
  - Supports TCP/ UDP Tracker Protocol
  - Schedule Download
  - Configurable Port Range
  - Bandwidth Control
  - UPnP NAT Port Forwarding
  - Subscribes to RSS Feeds
  - RSS Download (Broadcatching)
  - Selectable Download Files
- HTTP/ FTP Download
  - Configurable Saving Directory
  - Bulk Download with Wildcard Setting
  - RapidShare Download Support
- QNAP Download Management Software:

- Real-time & Background Photo Transcoding
  - Supports UPnP Media Player
    - Game Console: PlayStation 3, PSP and Xbox 360
    - Digital Media Adapter/Player
    - Mobile Device (e.g. iPhone, iPod touch with UPnP Applications)
  - Supported Formats:
    - ASF - Windows Media Video (Codecs: WMV video and WMA audio)
    - BMP - Bitmap Image
    - FLV, F1V, F4V - Standard Quality YouTube Video (Codec: Flash, Video: Sorenson Spark H.263 Video Codec & MP3 Audio Codec)
    - GIF - Graphics Interchange Format
    - JPG, JPEG, JPE - Joint Photographic Experts Group Image
    - MP3 - MPEG Audio Layer 3 (Codec: MPEG Audio)
    - MP4 - High Quality YouTube Video (Codecs: MP4: H.264 Video & HE-AAC audio)
    - MP4 - MPEG-4 Video (Codecs: Microsoft MPEG-4 v1, Microsoft MPEG-4 v2, Microsoft MPEG-4 v3 & ISO MPEG-4 v1)
    - MPEG, .MPG, .MLV - MPEG-1 (Codecs: MPEG-1 Video & MP2 Audio)
    - PNG - Portable Network Graphics
    - WAV - Linear Audio
- QGet
- For Both Windows & Mac OS
  - Manage the Download Tasks of Multiple QNAP NAS Remotely over LAN or WAN
- Surveillance Station**
- Supports 2 IP Cameras (Optional Purchase) for Network Surveillance

(Codecs: Uncompressed  
PCM-encoded &  
ADPCM-encoded)

Design and specifications are subject to change without notice.