

# TeraStation™ 5010

## Network Attached Storage

NAS with native  
10GbE connectivity.

Scalable high performance network storage for businesses.



Buffalo's TeraStation™ 5010 series has been built for small and medium sized businesses seeking an easy and cost-effective 10GbE platform. The TS5010 is a network attached storage (NAS) solution with iSCSI protocol designed to move SMB data at enterprise level speeds and eliminate the bottlenecks that can occur on slower networks.

Thanks to its powerful hardware the TS5010 series can run multiple concurrent services seamlessly with minimal performance degradation, and is ideal for organizations looking to add an affordable virtualized storage to their business network. Branch offices no longer need full-scale server infrastructure for simple tasks such as file sharing and backup. Cloud backup is also supported with Microsoft Azure and OneDrive, Dropbox/Dropbox Business and Amazon S3.

In combination with Buffalo's 10GbE business switches the quad core processor featuring TS5010 reaches faster than ever data transfer speeds. The series comes populated with NAS- or enterprise nearline (TS51210RH) grade HDD and is available in 2-, 4- or 8-bay desktop and 4- or 12-bay rackmount configurations.

The 4-, 8- and 12-bay versions come fully populated or partially populated, thus giving companies the flexibility to start with a smaller initial investment and increase the total capacity when the need arises in the future. The 2-bay TS5210DF is equipped with SSDs and therefore highly shock-/vibration-proof and extremely fast.

## Features and Benefits

- High-speed native 10GbE connection (1 or 2 (TS51210RH only) 10GbE ports)
- 2.5/5Gbps compatible, compliant with NBASE-T (IEEE 802.3bz) standard
- Powered by the high performance Annapurna Labs® Quad-Core processor with 4GB/8GB (TS51210RH) DDR3 ECC RAM
- Available in 2-bay, 4-bay and 8-bay desktop models or 4-bay and 12-bay rackmount
- Simultaneous NAS and iSCSI target functionality
- Advanced NTFS Permissions (Windows ACL)
- VMware ready
- Rapid RAID mode change
- RAID Mode Manager
- TRIM Command for increased SSD life time (TS5210DF)
- AES 256bit data encryption
- Boot Authentication ensures the device is only accessible on authorized networks
- Integrated cloud backup with Microsoft Azure and OneDrive, Dropbox and Amazon S3
- Remote access through WebAccess
- NovaBACKUP® backup software (11 licences for NovaBACKUP® Buffalo Edition)
- Duplex System Firmware Boot
- Active Directory (up to 10.000 supported users/groups imported from the domain)
- 3 year standard warranty (5 years for TS51210RH) including 24-hour HDD replacement; warranty extensions available separately (not for TS51210RH)

## About BUFFALO

BUFFALO is a leading global provider of award-winning storage, networking and multimedia solutions for the home and small business environments as well as for system builders and integrators. With more than four decades of networking and computer peripheral experience, BUFFALO has proven its commitment to delivering innovative solutions that have put the company at the forefront of infrastructure technology.

# Specifications

| Models                 | TS5210DF<br>(2-bay)                                                                                                                                        | TS5210DN<br>(2-bay)                                                                         | TS5410DN<br>(4-bay)                                                                         | TS5410RN<br>(4-bay)                                                                         | TS5810DN<br>(8-bay)                                                            | TS51210RH<br>(12-bay)                                                                                                   |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| Part Numbers           | TS5210DF00502-EU<br>TS5210DF0202-EU                                                                                                                        | TS5210DN0402-EU<br>TS5210DN0602-EU<br>TS5210DN0802-EU<br>TS5210DN1202-EU<br>TS5210DN1602-EU | TS5410DN0804-EU<br>TS5410DN1204-EU<br>TS5410DN1604-EU<br>TS5410DN2404-EU<br>TS5410DN3204-EU | TS5410RN0804-EU<br>TS5410RN1204-EU<br>TS5410RN1604-EU<br>TS5410RN2404-EU<br>TS5410RN3204-EU | TS5810DN3208-EU<br>TS5810DN6408-EU                                             | TS51210RH2412-EU<br>TS51210RH4812-EU<br>TS51210RH9612-EU<br>TS51210RH12012EU<br>TS51210RH14412EU                        |
|                        |                                                                                                                                                            |                                                                                             | Partially populated<br>TS5410DN0802-EU<br>TS5410DN1602-EU                                   | Partially populated<br>TS5410RN1602-EU                                                      | Partially populated<br>TS5810DN1604-EU<br>TS5810DN3204-EU                      | Partially populated<br>TS51210RH0804-EU<br>TS51210RH1604-EU<br>TS51210RH3204-EU<br>TS51210RH4004-EU<br>TS51210RH4804-EU |
| Configuration          | Desktop                                                                                                                                                    | Desktop                                                                                     | Desktop                                                                                     | Rackmount 19" 1U                                                                            | Desktop                                                                        | Rackmount 19" 2U                                                                                                        |
| Total Capacities       | 512 GB, 2 TB                                                                                                                                               | 4, 6, 8, 12, 16 TB                                                                          | 8, 12, 16, 24, 32 TB                                                                        |                                                                                             | 16, 32, 64 TB                                                                  | 8, 16, 24, 32, 40, 44, 48, 96, 120, 144 TB                                                                              |
| Anti-Vibration         | 10-150Hz 6G                                                                                                                                                |                                                                                             |                                                                                             |                                                                                             |                                                                                |                                                                                                                         |
| Internal Hard Drives   |                                                                                                                                                            |                                                                                             |                                                                                             |                                                                                             |                                                                                |                                                                                                                         |
| Type                   | SSD                                                                                                                                                        | NAS HDD                                                                                     |                                                                                             |                                                                                             |                                                                                | Nearline HDD                                                                                                            |
| Number of Drives       | 2                                                                                                                                                          | 2                                                                                           | 4 (fully populated)<br>2 (partially populated)                                              | 4 (fully populated)<br>2 (partially populated)                                              | 8 (fully populated)<br>4 (partially populated)                                 | 12 (fully populated)<br>4 (partially populated)                                                                         |
| Capacities             | 256 GB, 1 TB                                                                                                                                               | 2, 3, 4, 6, 8 TB                                                                            |                                                                                             |                                                                                             | 4, 8 TB                                                                        | 2, 4, 8, 10, 12 TB                                                                                                      |
| Drive Interface        | SATA 6 Gbps                                                                                                                                                |                                                                                             |                                                                                             |                                                                                             |                                                                                |                                                                                                                         |
| Supported RAID         | JBOD/0/1                                                                                                                                                   |                                                                                             | JBOD/0/1/5/6/10                                                                             |                                                                                             |                                                                                |                                                                                                                         |
| USB Interface          |                                                                                                                                                            |                                                                                             |                                                                                             |                                                                                             |                                                                                |                                                                                                                         |
| Standard Compliance    |                                                                                                                                                            |                                                                                             |                                                                                             | USB 2.0/3.0                                                                                 |                                                                                |                                                                                                                         |
| Connector Type         | A type                                                                                                                                                     |                                                                                             |                                                                                             |                                                                                             |                                                                                |                                                                                                                         |
| Number of Ports        | 2 x USB 3.0                                                                                                                                                |                                                                                             |                                                                                             | 3 x USB 3.0                                                                                 |                                                                                | 2 x USB 2.0, 2 x USB 3.0                                                                                                |
| Data Transfer Rates    | 480 Mbps / 5 Gbps                                                                                                                                          |                                                                                             |                                                                                             |                                                                                             |                                                                                |                                                                                                                         |
| System / Performance   |                                                                                                                                                            |                                                                                             |                                                                                             |                                                                                             |                                                                                |                                                                                                                         |
| CPU                    | Annapurna Labs® Alpine-Prozessor AL314 (1.7 GHz Quad-Core)                                                                                                 |                                                                                             |                                                                                             |                                                                                             |                                                                                |                                                                                                                         |
| RAM                    | 4 GB DDR3 with ECC                                                                                                                                         |                                                                                             |                                                                                             |                                                                                             |                                                                                | 8 GB DDR3 with ECC                                                                                                      |
| Environmental & Power  |                                                                                                                                                            |                                                                                             |                                                                                             |                                                                                             |                                                                                |                                                                                                                         |
| Power Unit             | 1                                                                                                                                                          | 1                                                                                           | 1                                                                                           | 1                                                                                           | 1                                                                              | 1 (2nd optional)                                                                                                        |
| Power Consumption      | Max. 85 W;<br>average active: 30 W;<br>average idle: 15 W;<br>standby: 0.8 W                                                                               | Max. 85 W;<br>average active: 45 W;<br>average idle: 32 W;<br>standby: 0.8 W                | Max. 85 W;<br>average active: 56 W;<br>average idle: 45 W;<br>standby: 0.8 W                | Max. 100 W;<br>average active: 60 W;<br>average idle: 46 W;<br>standby: 0.7 W               | Max. 150 W;<br>average active: 108 W;<br>average idle: 87 W;<br>standby: 4.5 W | Max. 500 W;<br>average active: 122 W;<br>average idle: 100 W;<br>standby: 3.9 W                                         |
| Power Supply           | Internal AC 100-240 V, Universal 50/60 Hz                                                                                                                  |                                                                                             |                                                                                             |                                                                                             |                                                                                |                                                                                                                         |
| Operating Temperature  | 0° - 40°C                                                                                                                                                  |                                                                                             |                                                                                             |                                                                                             |                                                                                |                                                                                                                         |
| Operating Humidity     | 10 - 85% non-condensing                                                                                                                                    |                                                                                             |                                                                                             |                                                                                             |                                                                                |                                                                                                                         |
| Dimensions / Weight    |                                                                                                                                                            |                                                                                             |                                                                                             |                                                                                             |                                                                                |                                                                                                                         |
| Dimensions (WxHxD)     | 170 x 170 x 230 mm                                                                                                                                         | 170 x 170 x 230 mm                                                                          | 170 x 215 x 230 mm                                                                          | 430 x 44,3 x 430 mm                                                                         | 300 x 215 x 230 mm                                                             | 481 x 88 x 736.9 mm                                                                                                     |
| Weight                 | 3.5 kg                                                                                                                                                     | 4.8 kg                                                                                      | 7 kg                                                                                        | 8.4 kg                                                                                      | 12.5 kg                                                                        | 20 kg (main unit with 4 HDDs)<br>25 kg (main unit with 12 HDDs)                                                         |
| LAN Interface          |                                                                                                                                                            |                                                                                             |                                                                                             |                                                                                             |                                                                                |                                                                                                                         |
| Standards Compliance   | (10BASE-T) IEEE802.3, (100BASE-TX) IEEE802.3u, (1000BASE-T) IEEE802.3ab, (10GBASE-T) IEEE802.3an, (NBASE-T) IEEE802.3bz                                    |                                                                                             |                                                                                             |                                                                                             |                                                                                |                                                                                                                         |
| Number of Ports        | 1 (10GBASE-T), 2 (1GBASE-T)                                                                                                                                |                                                                                             |                                                                                             |                                                                                             |                                                                                | 2 x 10GBASE-T,<br>2 x 1GBASE-T                                                                                          |
| Data Transfer Rates    | 2.5/5/10 Gbps / 10/100/1000 Mbps                                                                                                                           |                                                                                             |                                                                                             |                                                                                             |                                                                                |                                                                                                                         |
| Supported Protocols    | TCP/IP                                                                                                                                                     |                                                                                             |                                                                                             |                                                                                             |                                                                                |                                                                                                                         |
| Network File Services  | CIFS/SMB, AFP, FTP, SFTP, NFS, SNMP                                                                                                                        |                                                                                             |                                                                                             |                                                                                             |                                                                                |                                                                                                                         |
| Connector Type         | RJ-45                                                                                                                                                      |                                                                                             |                                                                                             |                                                                                             |                                                                                |                                                                                                                         |
| Other                  |                                                                                                                                                            |                                                                                             |                                                                                             |                                                                                             |                                                                                |                                                                                                                         |
| Client OS Support      | Windows® 10, Windows® 8.1, Windows® 7, Windows Server® 2016, Windows Server® 2012 R2, Windows Server® 2012, Windows Server® 2008, Mac® OS® X 10.9 or later |                                                                                             |                                                                                             |                                                                                             |                                                                                |                                                                                                                         |
| Included Software      | NAS Navigator 2, NovaBACKUP® Buffalo Edition (one server and ten workstation licenses)                                                                     |                                                                                             |                                                                                             |                                                                                             |                                                                                |                                                                                                                         |
| Box Contents           | TeraStation™, Quick Setup Guide, Cat 6a Ethernet Cable, AC Cable, Front Panel Key or Rail Kit with Mounting Brackets and Screws and Warranty Statement     |                                                                                             |                                                                                             |                                                                                             |                                                                                |                                                                                                                         |
| Accessories            |                                                                                                                                                            |                                                                                             |                                                                                             |                                                                                             |                                                                                |                                                                                                                         |
| Compatible Hard Drives | OP-SSD256G,<br>OP-SSD1.0                                                                                                                                   | OP-HD2.0N, OP-HD3.0N, OP-HD4.0N, OP-HD6.0N, OP-HD8.0N                                       |                                                                                             |                                                                                             | OP-HD4.0N, OP-HD8.0N                                                           | OP-HD2.0H2U-5Y<br>OP-HD4.0H2U-5Y<br>OP-HD8.0H2U-5Y<br>OP-HD10.0H2HU-5Y<br>OP-HD12.0H2HU-5Y                              |
| Redundant Power Unit   |                                                                                                                                                            |                                                                                             |                                                                                             |                                                                                             |                                                                                | OP-PU-10R2U-EU                                                                                                          |



\* 3 year warranty on all products, including option of +1 / +2 year warranty extension. 5 years warranty only for TS51210RH, without warranty extension.



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