

Windows™ Server
IoT



Buffalo's TeraStation WS5020 IoT series is a professional Network Attached Storage solution integrated with Windows Server IoT 2019. The NAS family has been purpose-built to be effortlessly deployed in a Windows environment, and aims to deliver open-ended storage and centralized data management for your business while saving costs and keeping your systems and data safe.

The featured Windows Server IoT 2019 For Storage Standard Edition offers smooth integration with other Microsoft products and services such as Office 365 and Azure, and is designed to help you enable a wide variety of IoT (Internet of Things) scenarios regardless of industry. From manufacturing to retail to medical, Windows Server IoT allows you to manage countless devices, as well as store, process, and back up data from these devices and seamlessly scale between the cloud and the edge. The lack of need for Client-Access Licenses ensures centralized access from additional users and devices, and Active Directory support helps manage and secure a large number of users.

The TeraStation WS5020 IoT offers features that are designed to maximize hardware utilization and lower storage costs. With Shadow Copy, data deduplication, Azure and OneDrive integration, and a host of virtualization capabilities, the WS5020 reduces hardware overhead costs while simplifying redundancy and improving data protection, so you can create a scalable and cost-effective storage solution that you can expand as you see fit.

Buffalo's TeraStations are widely considered the most secure NAS product on the market. The TeraStation WS5020 IoT are available in desktop and rackmount form factors, and is available in 8TB, 16TB, 32TB, and 40TB capacities. Each device comes with pre-tested NAS-grade hard drives included, along with a 3-year warranty and our award-winning, North America-based 24/7 technical support.

This cost-effective WS IoT storage solution provides limitless utility including:

- Effortless deployment into Windows-based environments and seamless integration with Microsoft services
- Manage large amounts of devices and data to create and power new IoT solutions for your business
- Versatility in implementing effective industry solutions, from POS systems to surveillance servers
- Create secure distribution points using Microsoft Endpoint Manager
- Administer flexible backups for Microsoft 365 and other services
- Create a hybrid cloud solution using Azure and OneDrive integration for additional security
- Enable a scalable and cost-effective storage solution using virtualization
- Protect data between servers and strengthen your BDR plan using DFS Replication, Hyper-V, and other features

PRODUCT SPECIFICATIONS

MODELS	WS5220DN	WS5420DN	WS5420RN
Part Numbers	WS5220DN08S9	WS5420DN08S9 WS5420DN16S9 WS5420DN32S9	WS5420RN16S9 WS5420RN32S9 WS5420RN40S9
Configuration	Desktop	Desktop	Rackmount
Operating System			
Windows Server IoT 2019	Standard Edition	Standard Edition	Standard Edition
INTERNAL HARD DRIVES			
Number of Drives	2	4	4
Capacity Range	8 TB	8, 16, 32 TB	16, 32, 40 TB
Drive Interface	SATA 6 Gbps	SATA 6 Gbps	SATA 6 Gbps
Supported RAID	0/1/JBOD (Individual Disks) (Default 1)	0/1/5/JBOD (Individual Disks) (Default 5)	0/1/5/JBOD (Individual Disks) (Default 5)
USB INTERFACE			
Number of Ports Data	2x USB 3.0 (A Type)	2x USB 3.0 (A Type)	3x USB 3.0 (A Type)
PERFORMANCE			
CPU	Intel Atom C3338	Intel Atom C3338	Intel Atom C3338
Memory	8GB DDR4 with ECC	8GB DDR4 with ECC	8GB DDR4 with ECC
ENVIRONMENTAL & POWER			
Power Consumption	Max 85W	Max 85W	Max 100W
Power Supply	Internal AC 100-240V Universal 50/60Hz	Internal AC 100-240V Universal 50/60Hz	Internal AC 100-240V Universal 50/60Hz
Operating Temperature	32° - 104°F (0° - 40°C)	32° - 104°F (0° - 40°C)	32° - 104°F (0° - 40°C)
Operating Humidity	10 - 85% non-condensing	10 - 85% non-condensing	10 - 85% non-condensing
Product Size			
Dimensions (LxWxH)	9.1 x 6.7 x 6.7 in	9.1 x 6.7 x 8.5 in	16.9 x 16.9 x 1.7 in
Weight	11.0 lbs	15.9 lbs	19.8 lbs
LAN INTERFACE			
Standards Compliance	IEEE802.3an (10GBASE-T), IEEE802.3bz (5GBASE-T/2.5GBASE-T), IEEE802.3ab (1000BASE-T), IEEE802.3u (100BASE-TX), IEEE802.3i (10BASE-T)		
Number of Ports	1 (10GBASE-T), 2 (1000BASE-T)		
Data Transfer Rates	10 Gbps / 1000 Mbps / 100 Mbps / 10 Mbps		
Connector Type	RJ-45		
CLIENT OS SUPPORT	Windows® 10 (32-bit/64-bit), Windows® 8.1 (32-bit/64-bit), Windows® 7 (32-bit/64-bit), Windows Server® 2022, Windows Server® 2019, Windows Server® 2016, Windows Server® 2012R2, Windows Server® 2012, macOS® 10.12 or later		
ACCESSORIES			
Compatible Hard Drives	OP-HD2.0N, OP-HD4.0N, OP-HD8.0N, OP-HD10.0N		
Optional Warranty	Keep Your Drive Warranty [Desktop] 3 Year: 3YKYD40 / 5 Year: 5YKYD40 [Rackmount] 3 Year: 3YKYD30 / 5 Year: 5YKYD30 Next Business Day Warranty [Desktop] 3 Year: 3YNBD20 / 5 Year: 5YNBD40 [Rackmount] 3 Year: 3YNBD20 / 5 Year: 5YNBD30		
BOX CONTENTS	TeraStation™, Quick Setup Guide, Ethernet Cable (CAT 6), *Rail Kit with Mounting Brackets and Screws, AC Cable, Setup Media (SD Card), **Front Panel Key, Warranty Statement *WS5420RN only ** WS5220DN & WS5420DN only		
INCLUDED SOFTWARE	NAS Navigator2, NovaBACKUP® Buffalo Edition (1 Business Essentials & 10 PC license)		

