

Windows Server IoT 2025



Buffalo's TeraStation WS5020 IoT series is a professional Network Attached Storage solution integrated with Windows Server IoT 2025 for Storage Workgroup edition.

The WS5020 comes with pre-tested NAS-grade HDD included along with a 3-year warranty and our award-winning, U.S.-based 24/7 Live Phone Support.

- Integrates seamlessly into Windows environments and supports all Windows-based applications, allowing legacy apps to run securely
- Supports any Windows-compatible cloud service for full flexibility
- Low cost file or SMB server that utilizes the latest Windows Server features such as data deduplication and Active Directory with enhanced security
- Edge storage for IoT devices, ideal for industrial environments collecting data from across multiple devices

Product Highlights

- Windows Server IoT 2025 for Storage Workgroup edition
- Pre-tested HDD included with RAID pre-configured
- Small business NAS with modern Windows Server data storage and security features
- Seamless integration with Windows-compatible applications and cloud services
- No Client Access Licenses required
- Made in Japan and TAA compliant



PRODUCT SPECIFICATIONS

MODELS	WS5220DN	WS5420DN	WS5420RN
Part Numbers	WS5220DN04W5 WS5220DN08W5	WS5420DN16W5 WS5420DN32W5 WS5420DN48W5	WS5420RN16W5 WS5420RN32W5 WS5420RN48W5
Form Factor	Desktop	Desktop	Rackmount
Operating System	Windows Server IoT 2025 for Storage Workgroup Edition	Windows Server IoT 2025 for Storage Workgroup Edition	Windows Server IoT 2025 for Storage Workgroup Edition
INTERNAL HARD DRIVES			
Number of Drives	2	4	4
Capacity Range	4, 8 TB	16, 32, 48 TB	16, 32, 48 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	2x USB 3.2 (A Type)	2x USB 3.2 (A Type)	3x USB 3.2 (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	IEEE802.3an (10GBASE-T), IEEE802.3bz (5GBASE-T/2.5GBASE-T), IEEE802.3ab (1000BASE-T), IEEE802.3u (100BASE-TX), IEEE802.3i (10BASE-T)		
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® 11, 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	OP-HD2.0N, OP-HD4.0N, OP-HD8.0N, OP-HD10.0N		
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 licenses)		

