

# QNAP TS-h1277XU-RP-3700X-128G 48TB 12x4TB Seagate IronWolf Pro 12 Bay NAS Rackmount Rack (2U) AMD Ryzen™ 7 128 GB DDR4 HDD Black, Grey



**Brand :** QNAP

**Product code:** TS-H1277XU-RP-3700X-128G/48TB-IWP

**Product name :** TS-h1277XU-RP-3700X-128G 48TB 12x4TB Seagate IronWolf Pro 12 Bay NAS Rackmount

- Provides two built-in 10GbE SFP+ ports and pre-installed with a dual-port 10GbE RJ45 adapter for bandwidth-demanding applications
  - PCIe expandability allows for 10GbE/25GbE/40GbE adapters, QM2 cards, or Fibre Channel cards to increase application performance
  - SSD cache acceleration improves random read/write performance to meet IPOS-demanding applications
  - Supports virtualization storage for VMware®, Citrix®, Microsoft® Hyper-V® and Windows Server® 2019, and hosts virtual machines and containers
  - Supports block-based and file-based cloud storage gateways with local cache for low-latency access to cloud data
  - QTS App Center includes feature-rich apps for expanding NAS applications without extra costs
- TS-h1277XU-RP, AMD Ryzen 7 3700X, DDR4, 5 GB, 12x SATA III, 1G RJ-45, 10G SFP+, USB 3.1, 2U, 88.3x482x562 mm

Storage		Ports & interfaces	
Supported storage drive interfaces	Serial ATA II, Serial ATA III	PCI Express x4 (Gen 3.x) slots	2
Storage drive sizes supported	2.5,3.5"	PCI Express x8 (Gen 3.x) slots	2
RAID support *	✓	<b>Design</b>	
RAID levels	0, 1, 5, 6, 10, 50, 60, JBOD	Chassis type *	Rack (2U)
Online RAID migration	✓	Cooling type *	Active
Online RAID expansion	✓	Product colour	Black, Grey
RAID rebuild	✓	Number of fans	2 fan(s)
Hot-swap drive bays	✓	Fan diameter	7 cm
Supported file systems	FAT32, HFS+, NTFS, ext3, ext4	LED indicators	HDD, LAN, Status
Storage drives installed *	✓	<b>Performance</b>	
Total installed storage capacity *	48 TB	Type *	NAS
Number of storage drives installed *	12	Device class *	Small & Medium Business
Number of storage drives supported *	12	Backup function *	✓
Installed storage drive type *	HDD	Backup features	Cloud, iSCSI LUN
Supported storage drive types *	HDD & SSD	Buzzer	✓
<b>Processor</b>		Multilingual support	✓
Processor manufacturer *	AMD	Noise level	37.2 dB
Processor generation	AMD Ryzen 3000 Series	Security algorithms	256-bit AES, FIPS 140-2, HTTPS, SSH, SSL/TLS
Processor family *	AMD Ryzen™ 7	Access Control List (ACL)	✓
Processor model *	3700X	Reset button	✓
Processor frequency *	3.4 GHz	On/off switch	✓
Processor boost frequency	4.4 GHz	Built-in FTP server	✓
Processor cores	8	Browser supported	Mozilla Firefox, Microsoft Edge, Google Chrome, Apple Safari
Processor threads	16	System log	✓
<b>Memory</b>		Hot spare	✓
Internal memory *	128 GB	S.M.A.R.T. support	✓
Internal memory type	DDR4	Share folder	CIFS/SMB
Maximum RAM supported	128 GB	<b>Software</b>	
Memory slots	4	Windows operating systems supported	Windows 10, Windows 7, Windows 8
Memory form factor	UDIMM		
Flash memory	5000 MB		

Network		Software	
Ethernet LAN *	✓	Linux operating systems supported	✓
Ethernet LAN data rates	1000,10000 Mbit/s		Mac OS X 10.10 Yosemite, Mac OS X 10.11 El Capitan, Mac OS X 10.12 Sierra, Mac OS X 10.13 High Sierra, Mac OS X 10.14 Mojave, Mac OS X 10.15 Catalina, Mac OS X 10.7 Lion, Mac OS X 10.8 Mountain Lion, Mac OS X 10.9 Mavericks
Ethernet LAN data rate supported (max)	10000 Mbit/s	Mac operating systems supported	
DHCP server	✓		Windows Server 2003, Windows Server 2008 R2, Windows Server 2012 R2, Windows Server 2016, Windows Server 2019
Jumbo frames support	✓	Server operating systems supported	
iSCSI support	✓		
Wake-on-LAN ready	✓		
Dynamic DNS (DDNS)	✓		
Ports & interfaces		Power	
USB port *	✓	Power supply location	Built-in
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity	4	Power supply unit (PSU) capacity	300 W
USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity	1	Number of power supply units	2
USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity	1	Redundant power supply (RPS) support	✓
Fiber ports quantity	2	Power consumption (typical)	106.66 W
Fiber optic connector	SFP+	AC input voltage	100 - 240 V
Ethernet LAN (RJ-45) ports *	4	Fan voltage	12 V
		Weight & dimensions	
		Width *	482 mm
		Depth *	562 mm
		Height *	88.3 mm
		Weight	13.7 kg
		Packaging content	
		Cables included	AC, LAN (RJ-45)
		Number of screws	84
		Operational conditions	
		Operating temperature (T-T)	0 - 40 °C
		Operating relative humidity (H-H)	5 - 95%

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