

MPN: SR-1C74

1U 4 Bay Server i7-12700, 16GB, 1TB NVMe, 2x 2.5GbE, IPMI, 1x 500W, Windows 11 Pro

1U Rack Server with Hot-Swap Storage — Intel Core i7-12700

A full-featured 1U rack server built for deployments where storage capacity and serviceability matter as much as processing power. Four front-accessible 3.5" hot-swap bays let drives be replaced without opening the chassis or taking the system out of the rack.

The Intel Core i7-12700 provides 12 cores and 20 threads with boost up to 4.9 GHz, paired with 16 GB DDR5 4000 MT/s memory and a 1 TB Samsung 990 Pro NVMe SSD, which keeps the operating system on its own fast drive and leaves all four bays free for data. The Supermicro X13SAZ-F embedded motherboard adds dual 2.5 Gigabit LAN with vPro, onboard TPM 2.0, and four SATA3 ports with RAID 0/1/5/10.

Full remote management is included via IPMI 2.0 with KVM over a dedicated LAN port, so the system can be power-cycled, re-imaged or accessed at BIOS level from anywhere — no site visit required.

Cooling is handled by four PWM fans with front-to-back airflow, and power comes from a 500 W 80 PLUS Platinum supply with PMBus monitoring. One full-height, full-length expansion slot is available for capture cards, additional network interfaces or a storage controller. Memory expands to 128 GB across four DIMM slots.

Delivered with Windows 11 Pro pre-installed and ready to deploy.

Key specs: Intel Core i7-12700 (12C/20T, 4.9 GHz) · 16 GB DDR5 4000 MT/s · 1 TB Samsung 990 Pro NVMe · 4 × 3.5" hot-swap bays with SES2 backplane · 2 × 2.5 GbE · IPMI 2.0 remote management · 500 W 80 PLUS Platinum · 1U rackmount · Windows 11 Pro

- 1U Rack Form Factor
- Intel® Core™ i7 12700 Processor
- 16GB DDR5 Non-ECC Server Memory
- 1TB PCIe 4.0 NVMe OS drive
- 2 x 2.5 Gigabit LAN
- 4 Usable Storage Bays
- Windows 11 Pro Operating System
- IPMI for remote management
- High efficiency 500W Power Supply



Specifications

Battery	Battery Weight (g)	3 g
	Lithium Weight (g)	0.065 g
Design	Chassis type	Rack
	Rack mounting	Yes
	Rack rails	Yes

Expansion slots	PCI Express x16 (Gen 4.x) slots	1
	Discrete graphics card	No
	On-board graphics card 4K support	Yes
Graphics	On-board graphics card model	Intel UHD Graphics 770
	ADR Information	UN3091 - Lithium METAL (inside equipment)
	Country of Origin	Denmark
Legal Information	EU ECCN Code	N/A
	Tariff No.	8471490000
	UNSPSC Code	43211501
Memory	US ECCN Code	5A992C
	Buffered memory type	Unregistered (unbuffered)
	ECC	No
	Internal memory	16 GB
	Internal memory type	DDR5
	Memory clock speed	4400 MHz
	Memory layout (slots x size)	2 x 8 GB
	Memory slots	4
Network	Ethernet interface type	2.5 Gigabit Ethernet, Gigabit Ethernet
	Ethernet LAN	Yes
	LAN controller	Intel I225-LM
	Wake-on-LAN ready	Yes
	Controller type	Intel SATA SW RAID
Other features	Drive bays	4
	Form factor	1U
	Hot-swap HDD bays	Yes
	Integrated BMC with IPMI	Yes
	Intel® Virtualization Technology (Intel® VT)	Yes
	Memory slots (available)	2
	Number of DIMM slots	4
	Number of drive bays	4
	Number of SATA connectors	4
	RAID controller type	Software RAID
	S.M.A.R.T. support	Yes
Package dimensions	Depth (package,cm)	76 cm
	Gross Weight (Package, kg)	17 kg
	Height (package,cm)	22 cm
	Width (package,cm)	60 cm
	Keyboard included	No
	Mouse included	No

Performance	BIOS type	UEFI
	Management platform	IPMI
	On-site support	No
	Remote administration	YES
	Trusted Platform Module (TPM)	Yes
	Trusted Platform Module (TPM) version	2.0
Ports & interfaces	DisplayPorts quantity	2
	Ethernet LAN (RJ-45) ports	2
	HDMI ports quantity	1
	Power cables quantity	1
Power	Number of main power supplies	1
	Number of power supply units	1
	Power supply	500 W
Processor	Motherboard chipset	Intel R680E
	Performance cores	8
	Performance-core base frequency	2.1 GHz
	Processor cache type	Smart Cache
	Processor cores	12
	Processor family	Intel Core i7
	Processor frequency	4.9 GHz
	Processor generation	12th gen Intel® Core™ i7
	Processor manufacturer	Intel
	Processor model	i7-12700
	Processor socket	LGA 1700
	Processor threads	20
	Thermal Design Power (TDP)	65 W
Processor special features	Enhanced Intel SpeedStep Technology	Yes
	Intel Virtualization Technology (VT-x)	Yes
	Intel Virtualization Technology for Directed I/O (VT-d)	Yes
	Intel VT-x with Extended Page Tables (EPT)	Yes
	Intel® Active Management Technology (Intel® AMT)	Yes
	Intel® Hyper Threading Technology (Intel® HT Technology)	Yes
	Intel® Quick Sync Video Technology	Yes
	Intel® Smart Cache	Yes
	Processor ARK ID	134591

Product dimensions	Net Weight (Product, kg)	12 kg
	Product Depth	50.3 cm
	Product Height	4.3 cm
	Product Width	43.7 cm
Software	Compatible operating systems	Windows 10/11, Windows Server 2022/2025
Storage	Number of HDDs supported	4
	RAID levels	0, 1, 5, 10
	RAID support	Yes
	SSD capacity	500 GB
	SSD interface	NVMe
	SSD size	M.2
	Supported HDD sizes	3.5, 2.5 "
	Terabytes written (TBW)	300
Technical details	2.5" HDD support	2
	3.5" HDD support	4
	Number of 3.5" bays	4
	Number of storage drives supported	4
	Supported RAID configuration	RAID0, RAID1, RAID5 & RAID10
	Warranty period	3 year(s)
Vendor information	Brand Name	Ernitec
	Warranty	3 Year(s)

Other images

