SUPERMICRO®

NVMe Optimized Server Solutions

Highest Performance • Up to 6x the bandwidth of SATA 3.0 (6Gbps) SSDs • >7x Lower Latency than SAS 3.0 (12Gbps) SSDs • Widest Variety of Systems Available

Hot-swap NVMe
New Generation SSD All-Flash Drive Technology

- Highest performance up to 3GB/s read and 750K IOPS per drive
- Satisfies the performance demands of VDI, cloud, storage, and server caching
- 2.5" U.2 (SFF-8639) form factor serviceability advantage vs. standard add-in cards
- Hot-swap protects against surprise add/remove

Large Bandwidth and Latency Improvements with True Hot-Swap Capability

nvm EXPRESS

The primary benefits of Supermicro SuperServer® solutions with NVMe support include improved performance (throughput and latency), hot-swap capability, ability to support many true hot-swap NVMe drives per server, cost-effectiveness compared to add-on card based solutions, and availability of many cost-optimized models from which to choose.

Supermicro is the first to market with true hot-swap support for NVMe SSD drives. This feature allows easy addition of storage capacity through the addition of SSDs, the replacement of existing SSDs with higher capacity units, or replacement of failed drives, while the server system is in operation. Additionally, the hot-swap feature protects against surprise removals, random device failures, or operator errors. Software hardening from Supermicro on its NVMe server product line provides an excellent protection against these all too-common data center issues.

intel XEON inside

www.supermicro.com/NVMe

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Supermicro® NVMe Optimized Servers

Product Family	1U Ultra			1U DCO / WIO			2U DCO / WIO
SKU	SYS-1028U-TN10RT+	SYS-1028U-TNR4T+ TNRT+ / TNRTP+	SYS-1028UX-CR- LL1 / LL2	SYS-1028R- MCT / MCTR	SYS-1028R- WC1R / WC1RT	SYS-1028R- WTNRT / WTNR	SYS-6028R-TDWNR SYS-6027R-CDNRT+
Drive Bays	10 x 2.5"	10 x 2.5"	10 x 2.5"	8 x 2.5"	10 x 2.5"	10 x 2.5"	12 x 3.5"
2.5" NVMe	10	2	2	2	2	2	4

Product Family	2U Ultra						2U BigTwin™
SKU	SYS-2028U-TN24R4T+	SYS-2028U- TNR4T+ / TNRT+ E1CNR4T+ / E1CNRT+	SYS-6028U- TNR4T+ / TNRT+ E1CNR4T+ / E1CNRT+	SYS-6028UX-TR4	SYS-2048U-RTR4	SYS-2028UT- BTNRT / BC1NRT	SYS-2028BT-HNR+/ SYS-2028BT-HNC0R+
Drive Bays	24 x 2.5"	24 x 2.5"	12 x 3.5"	12 x 3.5"	24 x 2.5"	20 x 2.5" / 2 Node	12 x 3.5"
2.5" NVMe	24	4	4	4	4	2 / Node	-HNR+: 24x NVMe Support -HNC0R+: 16x NVMe Support

Product Family	2U TwinPro™		2U SuperStorage		3U MicroCloud	4U FatTwin™	
SKU	SYS-2028TP-DNCR DNCTR / DNCFR	SYS-6028TP-DNCR DNCTR / DNCFR	SSG-2028R-NR48N	SSG-2028R-DN2R40L SSG-2028R-DN2R20L	5039MS-H12TRF	SYS-F618R2- RTN+ / RTPTN+ RC0+ / RC0PT+ RC1+ / RC1PT+	SYS-F628R3- RTBN+ / RTBPTN+ RC0B+ / RC0BPT+ RC1B+ / RC1BPT+
Drive Bays	24 x 2.5" / 4 Node	12 x 3.5" / 2 Node	48 x 2.5"	40 x 2.5" / 20 x 2.5"	48 x 2.5" or 24 x 3.5" / 12 Node	48 x 2.5" / 8 Node	32 x 3.5" / 4 Node
2.5" NVMe	4 / Node	4 / Node	48	40 / 20 (Dual Port)	2 / Node	2 / Node	2 / Node

Product Family	4U GPU	4U SuperStorage		7U SuperBlade®			8-Way MP
SKU	SYS-4028GR-TXR SYS-4028GR-TXRT	45-Bay SSG-6048R-E1CR45N/L	60-Bay SSG-6048R-E1CR60L/N	SBI-7128R-C6N StorageBlade®	SBI-7428R-C3N DatacenterBlade®	SBI-7428R-T3N DatacenterBlade®	SYS-7088B-TR4FT
Drive Bays	24 x 2.5"	45 x 3.5"	60 x 3.5"	60 x 2.5" / 10 Blade	42 x 2.5" / 14 Blade	42 x 2.5" / 14 Blade	20x 2.5"
2.5" NVMe	8	6	6	3 / Blade	3 / Blade	3 / Blade	16x U.2 NVMe support

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Please refer to the Supermicro website for all the latest updates:

www.supermicro.com/NVMe