

DISK DRIVES NP24 NP25



Nippon Peripherals Limited

Are you getting UPC from your CPU?

UPC is Ultimate Processing Capability, the utilization of your computer system at its maximum efficiency. There are, of course, many ways of achieving UPC; one of the most important of these is the use of NP Disk Drives. NP Disk Drives offer you the largest storage capacity available in the world today. And with the best cost-performance ratio.

THE PRODUCT

NP24 and NP25 Disk Drives are highly sophisticated large-capacity random access memory units developed as a technological extension of model NP20. In the Head Disk Assembly (HDA), the heads, disks, carriage, spindle, and even the movable parts of the voice coil motor are all encased in a plastic module, which assures outstanding reliability.

STANDARD FEATURES

High-Speed Access: Average access time is less than 20ms.

IBM Compatibility: The NP24 Disk Drive is plug-compatible with the IBM 3344; the NP25 is plug-compatible with the IBM 3350.

Redundant Diagnosis Capability: Because any problem in the unit can be quickly and easily diagnosed by inserting a diagnostic microprogram, troubleshooting time has been vastly reduced.

Outstanding Cost Performance: High-quality mass production results in an optimal cost-performance ratio.

OPTIONAL FEATURES

Fixed Head: A special fixed head feature allows for extremely high-speed data transfer, thereby optimizing the inherent function of the random access memory unit.

String Switch: A string switch feature permits connection to two independent storage controller units, thereby significantly increasing data access capability.

X-Call: X-call (cross-call), a unique feature available only with NP25 Disk Drives, allows simultaneous data access from two independent special storage controller units. Waiting time is thereby significantly reduced, and system efficiency is improved. Partial string disconnection capability allows for efficient maintenance.

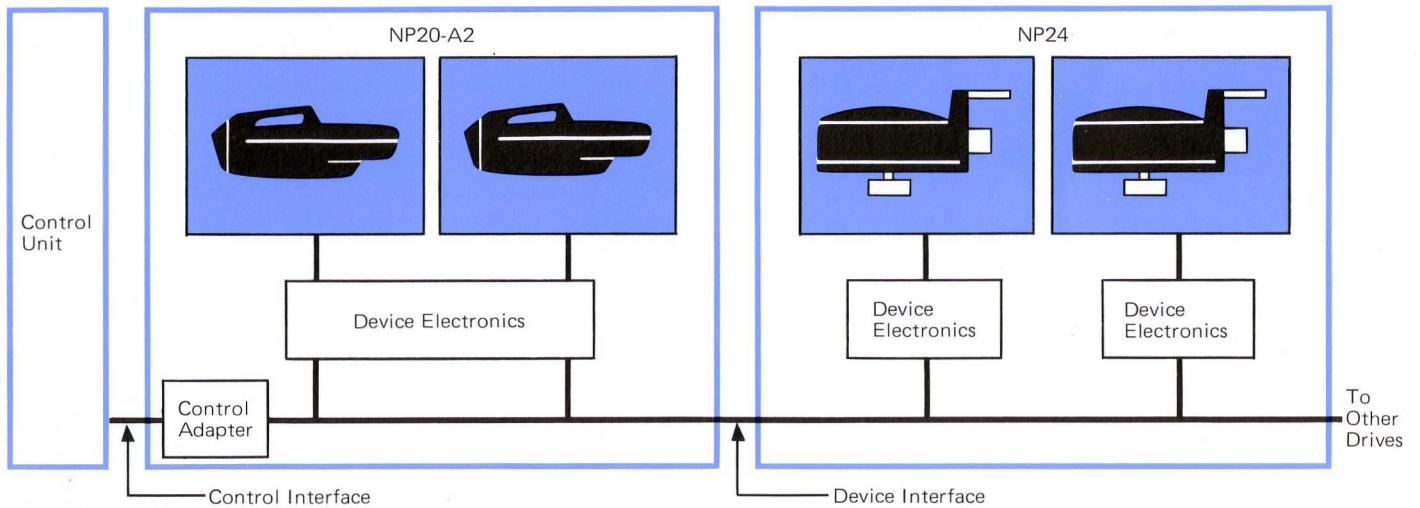


Disk Drives

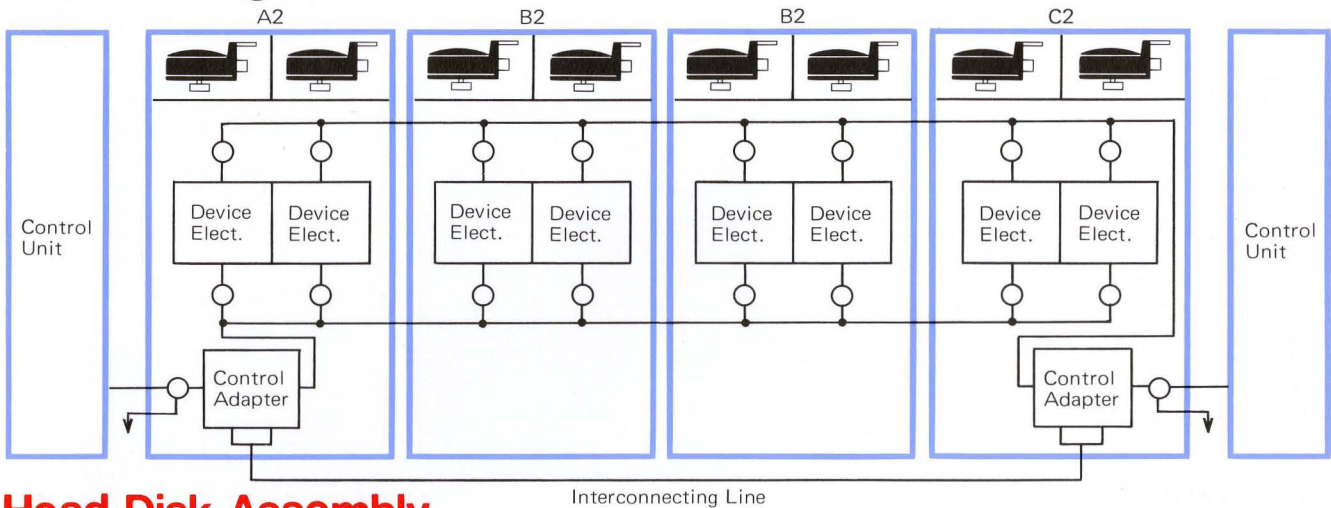
Type		NP24	NP25-A2/C2	NP25-B2
Positioning Time (ms)	Min.		6	
	Ave.		20	
	Max.		45	
Average Latency Time (ms)		10.1	8.33	
Data Transfer Rate (Kbytes/s)		885	1,198	
Number of Spindles		2	2	2
Features	Fixed Head Feature	Option	Option	Option
	String Switch	—	Option	—
	X-Call	—	Option	Option
Physical Dimensions (W x H x D) mm (inch)		1,070* x 1,130 x 850 (42.1 x 44.5 x 33.5)	1,200* x 1,130 x 850 (47.2 x 44.5 x 33.5)	1,070* x 1,130 x 850 (42.1 x 44.5 x 33.5)
Weight kg (lb)		430 (948)	470 (1,036)	430 (948)
Power Requirements		200, 220, 235, 380V/50Hz 3 ϕ		200, 208, 230V/60Hz 3 ϕ
Power Consumption (kVA)		1.8	2.4	2.0
Operating Environment		Temperature 15~32°C (55~90°F) Humidity 20~80%RH		

* Dimensions are 30mm greater when end cover is used. Unless specified, A2 is provided with end cover.

NP24 Configuration



NP25 Configuration with X-Call Feature



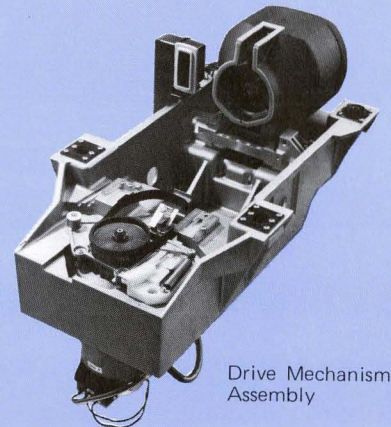
Head Disk Assembly

Type		NP24	NP24 (FHF)	NP25	NP25 (FHF)
Data Surfaces per Module		15	15	15	15
Servo Surfaces per Module		1	1	1	1
Cylinders per HDA		696 x 4	696 x 4	555*	555*
Byte Capacity per Track		8,368	8,368	19,069*	19,069*
Tracks per Cylinder		12	12	30*	30*
Byte Capacity	Movable Head	279,558,144	278,553,984	317,498,850 *	316,354,710 *
	Fixed Head	0	1,004,160	0*	1,144,140 *
	Total	279,558,144	279,558,144	317,498,850 *	317,498,850 *

*Numbers are at native mode; 3330-1 mode and 3330-11 mode also available.



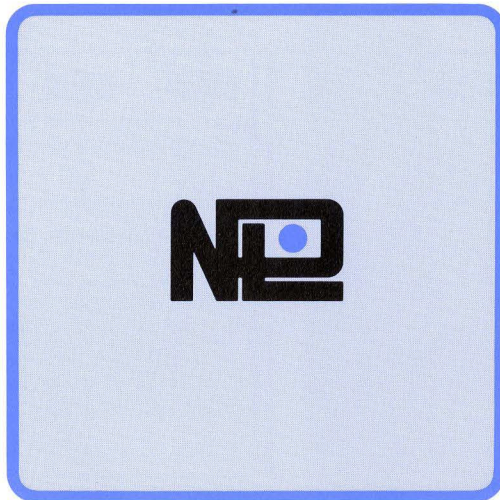
Head Disk Assembly



Drive Mechanism Assembly

Specifications are subject to change without notice.

Nippon Peripherals Limited was established in September 1973 with the aim of carrying out the development, manufacture, and sale of peripheral and terminal equipment for computers. The corporation represents joint investment and technical tie-ups between FUJITSU LIMITED and HITACHI, LTD., Japan's two foremost computer manufacturers. Nippon Peripherals' NP24 and NP25 Disk Drives were developed from technologies employed in earlier models.



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