

8 INCH DISK DRIVE NP31



Nippon Peripherals Limited

AN 8 INCH DISK DRIVE U



The world of computers has seen rapid changes in the past few years. Along with those changes has come the need for more versatile external storage devices, especially to fill the gap between mini and large scale applications. The NP31 was designed for users who don't need a super large storage capacity, but still want to be able to access what they do have right away. This new member of the NP series provides the same high reliability and performance of the larger NP drives. It's just smaller.

The Product

The NP31 is a compact 8 inch disk drive for small scale applications. Utilizing proven Winchester disk technology, this disk drive was developed for high reliability and performance — a sophisticated random access memory at a low price.

The media is enclosed in a plastic module called the Disk Enclosure (DE), which houses not only the heads, disks, and carriage, but also the voice coil motor, actuator and air filter; the perfect design to ensure reliability and performance.

Performance

Type	NP31-A1	NP31-A2	NP31-B1	NP31-B2
Total capacity MB	64.5	129	64.5	129
Number of spindles	1	2	1	2
Start up time sec	25			
Physical dimensions (W x D x H) mm (inch)	603 x 813 x 1,000 (23.7 x 32.0 x 39.4)			
Weight Kg (lb)	140 (310)	165 (370)	135 (300)	160 (360)
Power requirements	200, 220, 235V/50 Hz single phase 200, 208, 230V/60Hz single phase			
Power consumption KVA	0.45	0.8	0.4	0.75
Heat dissipation Kcal/H (BTU/H)	235 (930)	400 (1,590)	185 (730)	360 (1,430)
Operating environment	Temperature 10° to 32° C (50° to 90° F) Relative humidity 20 to 80%			

UNIT FOR IN-BETWEENERS

Features

IBM 3310 compatible

High performance:

27 ms average positioning time

1031 KB/s transfer rate

BPS function

Fixed block track format architecture

New built-in data servo technique:

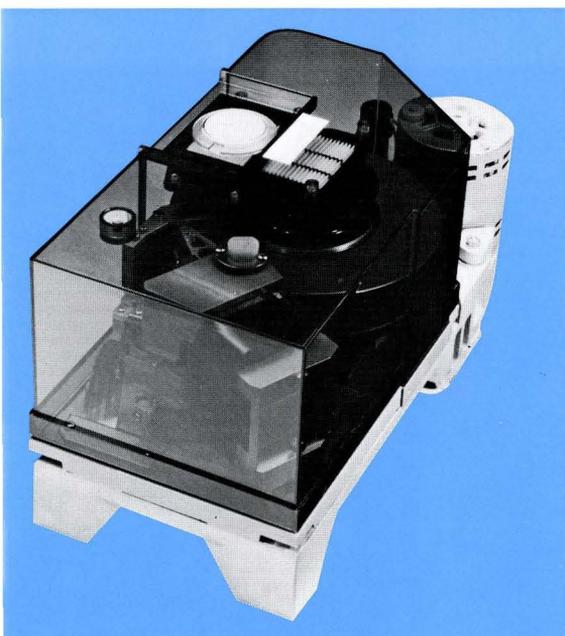
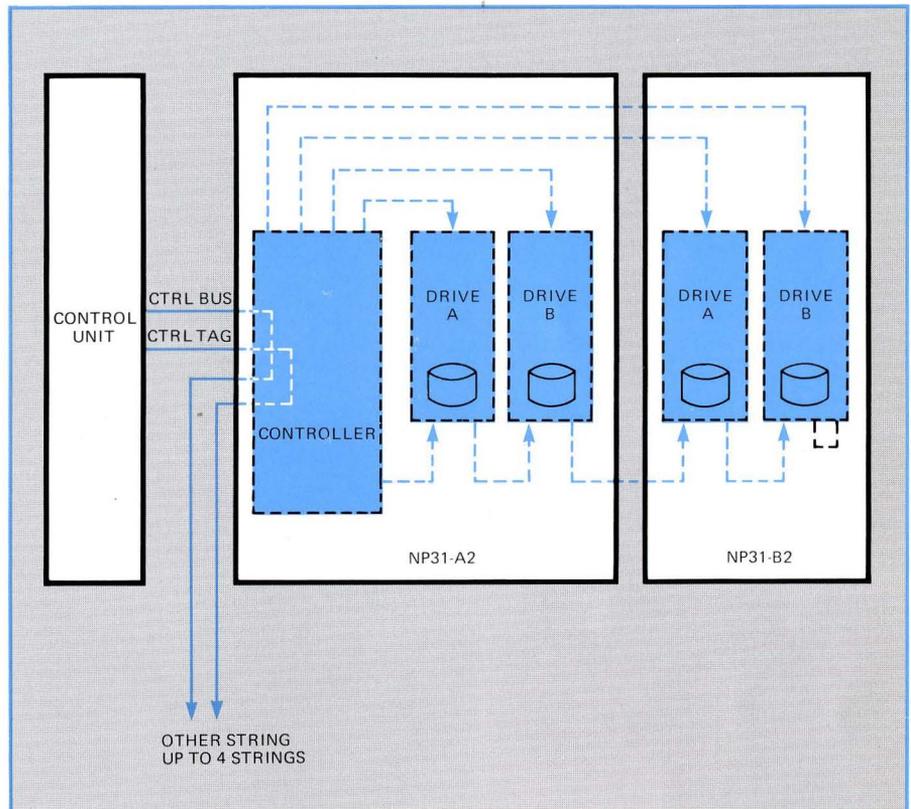
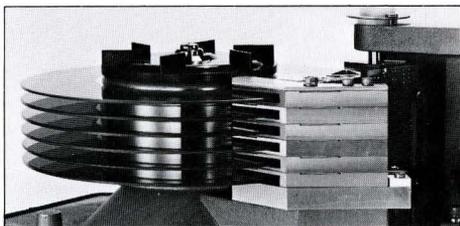
Servo signals are recorded on data surfaces as well as the servo disk, guaranteeing perfect head positioning every time.

High reliability: Rotary actuator and 8 inch disk keep operating temperature down.

Reliable Read/Write LSI, fixed media, and advanced head design.

Error checking and correction.

Diagnostic capability: No more extended outages. A handy offline tester allows complete diagnosis, vastly reducing troubleshooting time.



Mechanical Assembly with DE

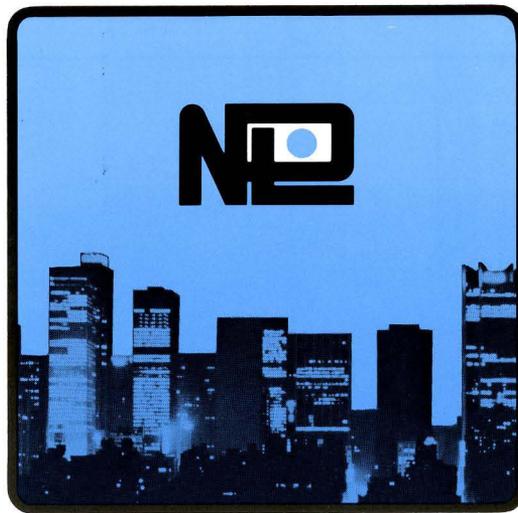
Subassemblies

Type	31 Series	*30 Series
Module capacity (MB)	64.5	115 Unformatted
Number of platters	6	6
Number of cylinders	360	532
Positioning (msec)	Data servo min. 9 avg. 27 max. 46	Regular 7 28 52
Bit density (BPI)	8,530	9,000
Track density (TPI)	465	544
Avg. latency time (msec)	9.6	
Data transfer rate (MB/sec)	1,031	
Interface	Piccolo	SMD
AC power requirements	100, 125, 200, 220, 235V/50Hz 100, 117, 200, 208, 230V/60Hz Single phase	

* The NP30 series, which can be configured for connection to any type of computer, is available for OEM.

Specifications are subject to change without notice. For the latest information, contact us.

Nippon Peripherals Limited, a joint venture between FUJITSU LIMITED and HITACHI, LTD. two of Japan's largest computer makers, develops, manufactures, and markets computer peripherals and terminals. The NP30 and NP31 disk drives are a new product based on the proven technology of earlier larger models.



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