



NORD
COMPUTER SYSTEMS



ND 574 288 MBYTE DISK DRIVE

INTRODUCTION

The ND 574 — 288 Mbyte Disk Drive — is a high performance high capacity random access storage device using a removable disk pack for recording of data. Each pack contains eleven recording disks. Data is stored on 19 surfaces. One surface is used for servo head positioning.

FEATURES

- Low average access time
- High data transfer rate
- Daisy chaining of up to 4 drives on one ND 558 or ND 559 — Disk Controller
- Easy loading and unloading of disk packs
- Automatic retries whenever recording errors are encountered
- ECC as standard for increased reliability
- Media and interface compatibility with other manufacturers
- Standard quiet cabinet

574/558—B2—2000—0379

PRODUCT DESCRIPTION

The basic disk unit consists of a disk pack spindle with associated drive motor, an actuator assembly, speed and position sensing devices, and logic circuitry for positioning, reading and writing.

A hinged cover allows access to the spindle for pack installation and removal, while also providing a seal in the closed position to maintain cleanliness within the disk shroud.

The disk controller — ND 558 or ND 559 — takes care of the data transfers between one of maximum 4 disk drives and memory. A 64 word FIFO buffer is employed to allow instantaneous DMA traffic to be larger than maximum channel bandwidth, by buffering disk data to and from memory.

ECC is standard for ND 558 or ND 559 and is capable of 34 bit burst error detection and 11 bit burst correction within each sector (512 words).

SPECIFICATIONS

Positioning time 55 ms maximum, 30 ms average, 6 ms one track

Latency time 17.2 ms maximum, 8.33 ms average

Access time (positioning and latency time) 72.2 ms maximum, 38.33 ms average

Number of cylinders 823

Number of sectors/track 18

Number of tracks/cylinder ... 19

Net capacities per:

Sector 512 words

Track 9216 words

Cylinder 175104 words

Unit ND 574 144.110592 Mwords (288 Mbytes)

Transfer rate:

Bit rates 9.677 MHz

Word rates 604 kHz

Maximum number of units/
controller:

ND 558 4

ND 559 4

Media:

288 Mbyte Diskpack ND 575

Power requirements:

Voltage AC 220V + 15, - 25
240V + 17, - 27

Watts 1300 operating, 500 stand-by

Hertz 50 + 0.5, - 1.0

Temperature:

Operating 15.5°C to 32°C

Gradient 6.6 C/hour

Humidity:

Operating 20% to 80% non-condensing

Size:

Height 91.4 cm

Width 58.4 cm

Depth 91.4 cm

Weight 321 kg

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