The DRIVETEC 320 SuperMinifloppy™ provides 3.3 megabyte storage capacity and 3 millisecond track-to-track performance in a compact, low cost, half-height 5¼” minifloppy format. Downward compatibility is maintained with existing minidiskettes by utilizing a 192 tpi double-sided recording format. A proprietary track following servo system ensures accurate, on-track read/write head positioning.

SuperMinifloppy design emphasizes reliability and long life. An absolute vertical clamping mechanism results in accurate, repeatable diskette registration. A brushless DC motor and onboard microprocessor provide enhanced performance as well as reliable operation. No preventive maintenance is required for the DRIVETEC 320.

The 320's compact size, high performance and 500 Kbit/sec transfer rate make it the perfect selection for a super floppy-based-system upgrade. As well, its very high storage capability provides excellent back-up for Winchester-based-systems. The DRIVETEC 320 SuperMinifloppy. It will make your system a super success.

KEY FEATURES
- Proprietary track following servo system
- Downward compatibility with 48tpi minidiskettes
- Utilizes two stepper motors (coarse and fine)
- On-board microprocessor
- Brushless DC motor
  - Activity light
  - Door lock
  - No preventive maintenance
- Enhanced serviceability
  - No internal cables
  - Detector and LED mounted on PCB
## PERFORMANCE SPECIFICATIONS

- **Capacity**
  - Formatted: 2.62 MBytes
  - Unformatted: 3.33 MBytes
- **Per Disk**
  - 1.31 MBytes
  - 1.67 MBytes
- **Per track**
  - 8192 Bytes
  - 10416 Bytes
- **Per sector**
  - 256 Bytes
- **Transfer rate**
  - 500 Kbits/sec.
- **Access time**
  - Track to track: 3 msec.
  - Settling: 15 msec.
  - Average: 160 msec.
  - Average latency: 83 msec.

## RELIABILITY SPECIFICATIONS

- **MTBF**
  - 10000
- **MTTR**
  - 15 min.
- **PM**
  - Not required
- **Component life**
  - 5 yrs.
- **Error rates**
  - Soft read errors: 1 per $10^9$ bits read
  - Hard read errors: 1 per $10^{22}$ bits read
  - Seek errors: 1 per $10^9$ bits read
- **Media life**
  - Passes per track: $3.5 \times 10^6$
  - Media insertions: 30,000 +

## FUNCTIONAL SPECIFICATIONS

- **Rotational speed**
  - 360 rpm
- **Recording density**
  - 9908 bpi
- **Flux density**
  - 9908 fci
- **Track density**
  - 192 tpi
- **Cylinders**
  - 160
- **Tracks**
  - 320
- **R/W heads**
  - 2
- **Index**
  - Not required
- **Encoding method**
  - MFM

## PHYSICAL SPECIFICATIONS

### ENVIROMENTAL LIMITS

- Ambient temp: 50°F to 115°F (10°C to 46°C)
- Relative humidity: 20% - 80%
- Max. wet bulb: 78°F (26°C)
- Non-condensing

### DC voltage requirements

- +5VDC ± 5% @ .41 A typical, .42 A max
- +12VDC ± 5% @ .9 A typical, 1.4 A max

### Mechanical dimensions

- Height: 1.62 in. (41.3 mm)
- Width: 5.75 in. (146.1 mm)
- Depth: 8.62 in. (218.9 mm)
- Weight: 2.0 lbs. (0.9 kg)

### Heat dissipation

- 20 watts max., 13 watts typical