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FUJITSU



# Hard Drive

## Mobile 4L Series
Low Profile 2.5-inch Disk Drives

**Fujitsu Mobile 4L low profile, 2.5-inch disk drives combine high capacity and high reliability with low height and low power consumption — a combination that satisfies the stringent requirements of mobile computing.**

- 2.16GB and 3.25GB capacities
- Ultra low, 9.5mm height
- Magneto-resistive (MR) head and partial response/maximum likelihood (PRML) read channel technologies
- High non-operating shock tolerance up to 500G for extreme ruggedness
- Fast ATA-3 interface and 4,000 RPM spindle
- Intelligent Power Management™ technology and Self Monitoring Analysis and Reporting Technology (S.M.A.R.T.)
- No Excuses™ 3-year replacement limited warranty

Mobile

Desktop

Enterprise

The mobile series highlights Fujitsu's commitment to design and performance breakthroughs — from advanced read/write heads and read channel electronics to extended shock resistance and battery-saving power features.

### High Storage Capacity

Mobile computer designs are getting smaller while the demand for storage capacity and performance is increasing. That's why we created the Mobile 4L low profile, 2.5-inch disk drives.

High areal densities of 2.2 and 2.7 GB/in$^2$ and Fujitsu's dedication to research and development of MR heads and PRML read channel technologies, enable the 9.5mm mobile drives to deliver outstanding performance in 2.16GB and 3.25GB capacities. So, they're big enough to hold large multimedia presentations, fast enough to run them, and small enough to fit in today's compact mobile computers.

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## Extreme Durability and Reliability

Accidents happen. That's why Mobile 4L drives are designed with a high non-operating shock tolerance, up to 500G, for extreme durability. They also feature Fujitsu's fifth-generation MR heads for greater reliability. Combined with S.M.A.R.T., a detection system which gives users advanced warning of possible drive inconsistencies, the Mobile 4L series delivers the rugged, reliable performance mobile computer users demand.

## Energy Efficient

Mobile 4L drives feature Fujitsu's Intelligent Power Management technology so mobile computer users can make the most of their time on the road. It extends the battery life by lowering power consumption during read and write operations, while the drive is idle, and while it is in sleep mode.

## No Excuses™

Fujitsu products are designed to give you the highest performance and reliability with the least amount of hassle. To prove this, we back them with our exclusive No Excuses three-year limited replacement warranty.

No Excuses may be the easiest and most comprehensive warranty in the industry. In the unlikely event of a product defect or malfunction with your Mobile 4L disk drive, we will replace it within two business days.

**Mobile 4L Series Disk Drive Specifications**

| Model | | MHD2021AT | MHD2032AT |
|---|---|---|---|
| Storage capacity (formatted) | | 2.16GB | 3.25GB |
| Disks/Heads | | 2/3 | 2/4 |
| Track capacity (formatted) | | 71,680 to 122,880 bytes | 76,800 to 128,000 bytes |
| Bytes/sector | | 512 | |
| Tracks per cylinder | | 4 | |
| Cylinders | | 7,289 | 7,317 |
| Seek time | Track to Track | 2.5 ms typ. | |
| | Average | 13 ms typ. | |
| | Maximum | 23 ms typ. | |
| Average latency | | 7.5 ms | |
| Rotational speed | | 4,000 rpm | |
| Recording density | | 191,000 BPI | 217,000 BPI |
| Track density | | 11,960 TPI | |
| Data transfer rate | To/from media | 5.9 to 10.1 MB/s | 6.3 to 10.6 MB/s |
| | To/from host | 33.3 MB/s | |
| Recording code | | EPR4ML | |
| Interface | | ATA-3 | |
| Buffer size | | 512 KB | |
| Power requirements | Voltage | 5 V± 5% | |
| | Spin-up | 0.9A typ. | |
| | Operating | 2.4W typ. | |
| | Idle | 0.91W typ. | |
| | Standby | 0.35W typ. | |
| | Sleep | 0.13W typ. | |
| Dimensions | Height | 9.5 mm (0.37 in.) | |
| | Width | 70 mm (2.8 in.) | |
| | Depth | 100 mm (3.9 in.) | |
| Weight | | 95 g (3.35 oz.) | |
| Ambient temperature | Operating | 5°C to 55°C (41°F to 131° F) | |
| | Non-operating | -40°C to 65°C (-40° F to 149°F) | |
| | Gradient | 20°C (68°F)/H | |
| Relative humidity | Operating | 8% to 90% RH (non-condensing) | |
| | Non-operating | 5% to 95% RH (non-condensing) | |
| | Max wet bulb | 29°C | |
| Vibration | Operating | 1.0 G (5 to 400 Hz) | |
| | Non-operating | 5.0 G (5 to 400 Hz) | |
| Shock | Operating | 100 G 2ms | |
| | Non-operating | 500 G 2ms | |
| Altitude | Operating | -300 to 3,000 m (-1,000 to 10,000 ft.) | |
| | Non-operating | -300 to 12,000 m (-1,000 to 40,000 ft.) | |
| Acoustic noise | | 30 dBA at 1m | |
| MTBF | | More than 300,000 power on hours | |
| Warranty | | 3 years No Excuses (from date of purchase)<br>2 business day turn-around time | |

## About Fujitsu Computer Products of America

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