



## Samsung SpinPoint F1 640GB SATA II HDD 2.5" Serial ATA II

**Brand :** Samsung      **Product family:** SpinPoint F1      **Product code:** HE642JJ

**Product name :** 640GB SATA II HDD



HE642JJ - 640GB SATAII HDD

Samsung SpinPoint F1 640GB SATA II HDD 2.5" Serial ATA II:

- Formatted capacity : 640GB
- Serial ATA 3.0Gbps Interface Support
- Improved recording stability over temperature with PMR
- Advanced dynamic FOD control for best data integrity
- Intelligent compensation of external disturbance
- SATA Native Command Queuing Feature
- Device Initiated SATA Power Management
- Staggerd Spin-up Support
- Rotational vibration sensor
- Environment friendly product with RoHS compliance
- Improved performance with dual-ARM based firmware
- ATA S.M.A.R.T. Compliant
- ATA Automatic Acoustic Management Feature
- ATA 48-bit Address Feature
- ATA Device Configuration Overlay Feature
- NoiseGuard™
- SilentSeek™

Samsung SpinPoint F1 640GB SATA II HDD. HDD size: 2.5", HDD capacity: 640 GB, HDD speed: 7200 RPM

Features		Operational conditions	
HDD size *	2.5"	Operating relative humidity (H-H)	5 - 90%
HDD capacity *	640 GB	Storage relative humidity (H-H)	5 - 95%
HDD speed *	7200 RPM	Operating altitude	-300 - 3000 m
Interface *	Serial ATA II	Non-operating altitude	-300 - 12000 m
Storage drive buffer size	16 MB	Operating shock	70 G
Average seek time	8.9 ms	Non-operating shock	300 G
Average latency	4.17 ms	<b>Weight &amp; dimensions</b>	
Bytes per sector	512	Width	101.5 mm
Start/stop cycles	50000	Height	26.1 mm
Mean time between failures (MTBF)	1200000 h	Depth	147 mm
<b>Power</b>		Weight	610 g
Power consumption (standby)	1 W	<b>Other features</b>	
Power consumption (PowerSave)	1 W	Dimensions (WxDxH)	101.5 x 147 x 26.1 mm
Operating voltage	5 V	Internal	✓
<b>Operational conditions</b>		Maximum data transfer rate	300 Mbit/s
Operating temperature (T-T)	0 - 60 °C	Drive device, transfer rate	175 MB/s
Storage temperature (T-T)	-40 - 70 °C	Drive ready time	12 s

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