

Data Sheet

Component Hard Disk Drive for Fujitsu Desktop ESPRIMO and Fujitsu Workstation CELSIUS

Fujitsu offers for the Desktop and Workstation portfolio a broad range of storage devices from standard hard disk drives up to solid state drives. Also Intel Optane cache memory, improves your storage performance. This datasheet supports you to decide what type of drive fits best to your

ADVANTAGES OF 3.5-INCH HARD DISK DRIVES

- Biggest capacity
- Best price / GByte ratio

ADVANTAGES OF 2.5-INCH HARD DISK DRIVES

- Less noise
- Less weight
- Low power consumption
- Low access time
- Minimal vibrations
- Optimized for enhanced power management



A classification of our different storage devices is available in the final section of this document!

Technical Details – Hard Disk Drives for Fujitsu Desktop ESPRIMO

SATA DRIVES 3.5-INCH 7200 RPM

Physical Specifications		
Capacity	1000 GB	2000 GB
Width	3.5"	3.5"
Interface	SATA (6.0 Gb/s)	SATA (6.0 Gb/s)
Performance Specification		
Rotational Speed (RPM)	7200	7200
Buffer size (MB)	64	64
Seek time		
Track to track (average) (ms)	1.0	1.0
Average seek time (ms)	13.4	15.0
Transfer Rates		
Buffer to host (Serial ATA, max) (MB/s)	600	600
Features		
NCQ support	yes	yes
4K technology	yes	yes

SATA DRIVES 2.5-INCH 5400 RPM

Physical Specifications			
Capacity	500 GB	1000 GB	2000 GB
Width	2.5"	2.5"	2.5"
Interface	SATA (6.0 Gb/s)	SATA (6.0 Gb/s)	SATA (6.0 Gb/s)
Performance Specification			
Rotational Speed (RPM)	5400	5400	5.400
Buffer size (MB)	128	128	128
Seek time			
Track to track (average) (ms)	1.5	1.5	1.5
Average seek time (ms)	13.0	13.0	13.0
Full-Stroke (average) (ms)	13.0	13.0	13.0
Transfer Rates			
Buffer to host (Serial ATA, max) (MB/s)	600	600	600
Features			
NCQ support	yes	yes	yes
4K technology	yes	yes	yes
24/7 operations	-	-	-

Technical Details – Hard Disk Drives for Fujitsu Workstation CELSIUS

SATA DRIVES 3.5-INCH 7200 RPM (SATA III)

Physical Specifications		
Capacity	1000 GB	2000 GB
Width	3.5"	3.5"
Interface	SATA (6.0 Gb/s)	SATA (6.0 Gb/s)
Performance Specification		
Rotational Speed (RPM)	7200	7200
Buffer size (MB)	64	64
Seek time		
Track to track (average) (ms)	1.0	1.0
Average seek time (ms)	13.4	15.0
Transfer Rates		
Buffer to host (Serial ATA, max) (MB/s)	600	600
Features		
NCQ support	yes	yes
4K technology	yes	yes

SATA DRIVES 3.5-INCH BUSINESS CRITICAL 7200 RPM

Physical Specifications			
Capacity	2000 GB	4000 GB	8000 GB
Width	3.5"	3.5"	3.5"
Interface	SATA (6.0 Gb/s)	SATA (6.0 Gb/s)	SATA (6.0 Gb/s)
Performance Specification			
Rotational Speed (RPM)	7200	7200	7200
Buffer size (MB)	256	256	256
Average Latency (ms)	4.2	4.2	4.2
Seek time			
Track to track (average) (ms) *	n/a	n/a	n/a
Average seek time (ms) *	n/a	n/a	n/a
Full-Stroke (average) (ms) *	n/a	n/a	n/a
Transfer Rates			
Buffer to host (Serial ATA, max) (MB/s)	600	600	600
Max. buffer to disk (OD) (Mbyte/s)	226	226	238
Min. buffer to disk (ID) (Mbyte/s)	100	100	100
Features			
NCQ support	yes	yes	yes
4K technology	no	no	yes

* = Not specified by supplier

SATA DRIVES 2.5-INCH Business Critical 7200 RPM

Physical Specifications		
Capacity	1000 GB	2000 GB
Width	2.5"	2.5"
Interface	SATA (6.0 Gb/s)	SATA (6.0 Gb/s)
Performance Specification		
Rotational Speed (RPM)	7200	7200
Buffer size (MB)	128	128
Average latency (ms)	4.2	4.2
Seek time		
Track to track (average) (ms)	0.7	0.7
Average seek time (ms)	8.5	8.5
Full-Stroke (average) (ms)	12.0	12.0
Transfer Rates		
Buffer to host (Serial ATA, max) (MB/s)	600	600
Max. buffer to disk (OD) (Mbyte/s)	136	136
Min. buffer to disk (ID) (Mbyte/s)	90	90
Features		
NCQ support	yes	yes
4K technology	yes	yes

SAS DRIVES 2.5-INCH 10,000 RPM

(only as optional deliveries possible)

Physical Specifications				
Capacity	600 GB	1200 GB	1800 GB	2400 GB
Width	2.5"	2.5"	2.5"	2.5"
Interface	SAS (12.0 Gb/s)	SAS (12.0 Gb/s)	SAS (12.0 Gb/s)	SAS (12.0 Gb/s)
Performance Specification				
Rotational Speed (RPM)	10,000	10,000	10,000	10,000
Buffer size (MB)	256	256	256	256
Average Latency (ms)	2.9	2.9	2.9	2.9
Seek time				
Track to track (average) (ms)	<1	n/a	<1	0.0
Average seek time (ms)	4.1	4.1	4.2	4.4
Full-Stroke (average) (ms)	<10	<10	<10	0.0
Transfer Rates				
Buffer to host (SAS, max) (MB/s)	1200	1200	1200	1200
Max. buffer to disk (OD) (MByte/s)	254	254	254	254
Min. buffer to disk (ID) (MByte/s)	124	124	124	124
Features				
NCQ support	yes	yes	yes	yes
4K technology	yes	yes	yes	yes

CLASSIFICATION DESKTOP and WORKSTATION

Drive Category	HDD 3.5-inch SATA 7.2k	HDD 2.5-inch SATA 5.4k	HDD 3.5-inch SATA 7.2k BC	SSD 2.5-inch SATA	SSD M.2 NVMe PCIe Gen3 High-end
Price / GB	1	1	4	5	3

Performance	4	5	4	2	1
Noise emission	3	2	3	1	1
Energy efficiency	3	2	3	1	1
Reliability / robustness	5	5	2	3	3

Ranking (1 = excellent)

CLASSIFICATION WORKSTATION ONLY

Drive Category	HDD 2.5-inch SATA 7.2k BC	HDD 2.5-inch SAS 10k	SSD 2.5-inch SATA High endurance	SSD M.2 NVMe PCIe Gen3 High-end card
Price / GB	4	3	5	4
Performance	4	3	2	1
Noise emission	2	3	1	1
Energy efficiency	2	3	1	1
Reliability / robustness	2	1	1	3

Ranking (1 = excellent)

Notes: Please find more information about our SSD drives in the data sheet [Solid State Disks for Fujitsu Desktop ESPRIMO and Fujitsu Workstation CELSIUS](#)

More information

Fujitsu platform solutions

In addition to Fujitsu LAN cards, Fujitsu provides a range of platform

More information

More information

To learn more about Fujitsu, please contact your Fujitsu sales



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