

# Data Sheet

## Fujitsu PSAS CP500e/CP503i SAS Controller SAS Controller

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The SAS / SATA technology offers a performance improvement over traditional SCSI connections. Serial Attached SCSI (SAS) and Serial ATA (SATA) are point-to-point serial peripheral interfaces in which controllers are linked directly to disk drives. This technology supports full-duplex signal transmission up to 12Gb/s.

SAS devices can communicate with both SAS and SATA devices. A key difference between SAS and SATA devices is, that SAS devices can have two data ports, of which each resides in a different SAS domain. This enables complete failover redundancy. If one path fails, there is still communication along a separate and independent path.

### PSAS CP500e/CP503i SAS Controller

The PSAS CP500e/CP503i, eight port SAS/SATA host bus adapter provides increased connectivity and maximum performance for high-end servers and applications within internal and external storage. Performance is based on the Broadcom SAS3408 IO controller, integrating the latest enhancements in SAS and PCI Express 3.1 technology.

The PSAS CP500e provides two x4 external mini-SAS HD connectors (SFF-8644) and enabling a low profile solution that can achieve over 1 million IOPs. The PSAS CP503i provides two x4 internal mini-SAS HD connectors (SFF-8643) and enabling a low profile solution that can achieve over 1 million IOPs. .



Main Features	Benefits
<b>Supported protocols</b> <ul style="list-style-type: none"> <li>12Gb/s data transfer rate per port</li> </ul>	<ul style="list-style-type: none"> <li>12Gb/s SAS connectivity eases integration and broadens application by supporting legacy speeds and the SATA protocol</li> </ul>
<b>Storage performance</b> <ul style="list-style-type: none"> <li>Two x4 external mini-SAS HD connectors (PSAS CP500e : SFF-8644; PSAS CP503i : SFF-8643)</li> </ul>	<ul style="list-style-type: none"> <li>Doubles the performance of previous generation SATA+SAS HBAs</li> </ul>
<b>Scalable performance</b> <ul style="list-style-type: none"> <li>Provides scalable performance</li> </ul>	<ul style="list-style-type: none"> <li>Superior performance architecture</li> </ul>
<b>Form-factor</b> <ul style="list-style-type: none"> <li>Low profile form-factor design</li> </ul>	<ul style="list-style-type: none"> <li>Low profile factor ideal for 1U and 2U server</li> </ul>

# Technical details

## Technical details

Controller Silicon	based on Broadcom SAS3408
Controller type	SAS Ctrl.
Released drivers list link	<a href="http://support.ts.fujitsu.com/Download/Index.asp">http://support.ts.fujitsu.com/Download/Index.asp</a>
Number of ports	8 ports ext. 8 ports int.
Connector external	2x SFF8644 (Mini-SAS HD)
Connector internal	2x SFF8643 (Mini-SAS HD)
Number of external ports	8
Number of internal ports	8
Bus interface	PCIe 3.0 x8
Interface technology	SAS/SATA

Order code	Product Name	Height of bracket	Number of Connectors	Formfactor
PYBSC3FBEL	PSAS CP500e LP		2	Low profile
PYBSC3FBE	PSAS CP500e FH	Full Height (FH)	2	Low profile
PYBSC3FBL	PSAS CP503i LP	Low Profile (LP)	2	Low profile
PY-SC3FBE	PSAS CP500e FH/LP	Full Height / Low Profile	2	Low profile
PY-SC3FB	PSAS CP503i FH/LP		2	Low profile

## Environment

Temperature (operating)	0 - 55 °C
Storage temperature	-45 - 105 °C

## Compliance

Compliance notes	According to the corresponding system
Compliance link	<a href="https://sp.ts.fujitsu.com/sites/certificates">https://sp.ts.fujitsu.com/sites/certificates</a>

# More information

## Fujitsu products, solutions & services

In addition to Fujitsu with PSAS CP500e/CP503i SAS Controller, Fujitsu provides a range of platform solutions. They combine reliable Fujitsu products with the best in services, know-how and worldwide partnerships.

### Fujitsu Portfolio

Build on industry standards, Fujitsu offers a full portfolio of IT hardware and software products, services, solutions and cloud offering, ranging from clients to datacenter solutions and includes the broad stack of Business Solutions, as well as the full stack of Cloud offering. This allows customers to leverage from alternative sourcing and delivery models to increase their business agility and to improve their IT operation's reliability.

### Computing Products

[www.fujitsu.com/global/products/computing/](http://www.fujitsu.com/global/products/computing/)

### Software

[www.fujitsu.com/software/](http://www.fujitsu.com/software/)

## More information

Learn more about Fujitsu PSAS CP500e/CP503i SAS Controller, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website. [www.fujitsu.com/primergy](http://www.fujitsu.com/primergy)

## Fujitsu green policy innovation

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Please find further information at <http://www.fujitsu.com/global/about/environment>



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Please note that the data sheet reflects the technical specification with the maximum selection of components for the named system and not the detailed scope of delivery. The scope of delivery is defined by the selection of components at the time of ordering. The product was developed for normal business use.

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