

# Datasheet

## PCI Expansion Unit

The PCI Expansion Unit—an I/O expansion option for Oracle's Fujitsu SPARC M12 and Fujitsu M10 family of servers—meets demands for applications requiring extensive scalability, mission-critical levels of availability, and seamless data center integration. The PCI Expansion Unit takes maximum advantage of the high I/O bandwidth of Fujitsu SPARC M12 and Fujitsu M10 servers.



### Product Overview

Perfectly suited for Fujitsu SPARC servers, the PCI Expansion Unit offers significant I/O adapter expandability. One or more PCI Expansion Units can be connected to both Fujitsu SPARC M12 and Fujitsu M10 servers, providing connectivity of up to 11 additional PCI Express (PCIe) slots per PCI Expansion Unit in a space-saving rackmount chassis (2U). PCIe generation 3 is supported by the PCI Expansion Unit.

### High Reliability, Availability, and Serviceability

PCI Expansion Unit power supplies are configured with 1 + 1 redundancy and support dual power feed. Fans are configured with 2 + 1 redundancy. All PCIe cards, power supplies, and fans support hot swapping.



### Easy Monitoring and Control from Fujitsu SPARC Servers

The PCI Expansion Unit can be easily monitored and controlled in conjunction with the XSCF (eXtended System Control Facility) system monitoring function of Fujitsu SPARC servers. PCI Expansion Units power on and off in synchronization with the power status of Fujitsu SPARC servers.



# Specifications

## Main Items

PCI Express slots	PCI Express 3.0 (8 lanes): 11 slots
Redundant components	Power Supply Units (Dual Power Feed supported), Fans
Hot-swappable components	Power Supply Units, PCIe cards, Link Card in server (except for in Fujitsu SPARC M12-1), Fans

## External Dimensions and Weight

Height	86 mm (3.4 in.):2U
Width	440 mm (17.3 in.)
Depth	750 mm (29.5 in.)
Weight	22 kg (48.5 lb) excluding rack mount rails

## Input power

AC power	AC 100 - 120 V ± 10% (50/60 Hz), AC 200 - 240 V ± 10% (50/60 Hz)
Maximum power consumption	279 W at AC 100V, 270 W at AC 200V
Maximum apparent power	284 VA at AC 100V, 276 VA at AC 200V
Maximum heat output	1,005 kJ/h at AC 100V, 972 kJ/h at AC 200V

## Ambient environment conditions

Temperature(operating)	5° C to 35° C(41° F to 95° F)
Humidity(operating)	20% to 80%(Noncondensing)
Temperature(non-operating)	-25° C to 80° C(packed), -0° C to 50° C(unpacked)
Humidity(non-operating)	8% to 80%(Noncondensing)

## Regulations

Safety	<ul style="list-style-type: none"> <li>• EN 60950-1:2006 + A11:2009 + A1:2010 + A12:2011 + A2:2013</li> <li>• IEC 60950-1:2005, 2nd Edition + A1:2009 + A2:2013 (Evaluated to all CB countries)</li> <li>• ANSI/UL 60950-1-2014</li> <li>• CAN/CSA C22.2 No. 60950-1-07 + A1:2011 + A2:2014</li> <li>• GOST IEC 60950-1-2011</li> </ul>
RFI / EMC	<ul style="list-style-type: none"> <li>• EN55032:2012 Class A</li> <li>• EN61000-3-2:2014</li> <li>• EN61000-3-3:2013</li> <li>• FCC Part-15 Subpart B: 2016 Class A</li> <li>• ICES-003 Issue 6: 2016 Class A</li> <li>• VCCI V-3/2015.04 Class A</li> <li>• JIS C61000-3-2: 2011</li> <li>• AS/NZS CISPR 32:2013 Class A</li> <li>• STB EN 55022-2012</li> <li>• STB IEC 61000-3-2-2006</li> <li>• STB IEC 61000-3-3-2011</li> <li>• KN22 Class A</li> </ul>
Immunity	<ul style="list-style-type: none"> <li>• EN55024:2010</li> <li>• STB EN 55024-2006</li> <li>• KN24</li> </ul>

# More information

## Fujitsu products, solutions & services

### Products

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

In addition to the Fujitsu SPARC M12 Server, Fujitsu offers a full portfolio of other computing products.

### Computing products

- Storage systems: ETERNUS
- Server: PRIMERGY, PRIMEQUEST, Fujitsu SPARC M12, BS2000/OSD Mainframe
- Client Computing Devices: LIFEBOOK, STYLISTIC, ESPRIMO, FUTRO, CELSIUS
- Peripherals: Fujitsu Displays, Accessories
- Software
- Network

Product Support Services with different service levels agreements are recommended to safeguard each product and ensure smooth IT operation.

### Solutions

<http://www.fujitsu.com/global/solutions>

The Fujitsu solutions combine reliable Fujitsu products with the best in services, know-how and worldwide partnerships. Fujitsu's Solutions include parts of one or more activity groups (e.g., planning, implementation, support, management, and training services) and are designed to solve a specific business need.

**Infrastructure Solutions** are customer offerings created by bringing Fujitsu's best products, services and technologies together with those from partners to deliver benefit to our customers' businesses.

**Industry Solutions** are tailored to meet the needs of specific verticals.

**Business and Technology Solutions** provide a variety of technologies developed to tackle specific business issues such as security and sustainability, across many verticals.

### Services

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

Several customizable Fujitsu Service offerings ensure that IT makes a real difference and delivers true business value. We do this by leveraging our extensive experience in managing large, complex, transformational IT programs to help clients in planning, delivering and operating IT services in a challenging and changing business environment.

**Application Services** support the development, integration, testing, deployment and on-going management of both custom developed and packaged applications. The services focus on delivering business and productivity improvements for organizations.

**Business Services** respond to the challenge of planning, delivering and operating IT in a complex and changing IT environment.

**Managed Infrastructure Services** enable customers to deliver the optimal IT environment to meet their needs – achieving high levels of IT service quality and performance for data center and end user environments.

## Fujitsu green policy innovation

[Environment - Fujitsu Global](#)

Fujitsu Green Policy Innovation is our worldwide project for reducing burdens on the environment. Using our global know-how, we aim to resolve issues of environmental energy efficiency through IT. Please find further information at:



## More information

Learn more about Fujitsu, please contact your Fujitsu sales representative, Fujitsu business partner, or visit our website.

<http://www.fujitsu.com/sparc>

## Copyright

© Copyright 2017 Fujitsu limited  
Fujitsu, the Fujitsu logo, [other Fujitsu trademarks /registered trademarks] are trademarks or registered trademarks of Fujitsu Limited in Japan and other countries.

## Disclaimer

Technical data subject to modification and delivery subject to availability. Any liability that the data and illustrations are complete, actual or correct is excluded. Designations may be trademarks and/or copyrights of the respective manufacturer, the use of which by third parties for their own purposes may infringe the rights of such owner.

## Contact

FUJITSU  
Fujitsu SPARC M12 Server  
<http://www.fujitsu.com/sparc>  
2017-07-11 WW-EN