

Saturn 4522P/8522P Multiport™

PCI Serial Controller

FABRIC & CONNECTIVITY DIVISION



- Four and eight ports from one PCI Bus slot
- PCI 2.2 compliant
- Each port is assignable for synchronous or asynchronous communications
- Synchronous data transfer rates up to 256 kbps and asynchronous data transfer rates up to 230.4 kbps, full duplex, simultaneously on all ports
- Supports SPARC® Solaris®, Rev. 8, 9, and 10; Solaris x86, Rev. 2.6, 7, and 8; and Linux
- Interface options include:
 - RS-232
 - RS-422/485 with DB-25 connectors via an external breakout box
- Compatible with Sun synchronous communications protocols
- Optional synchronous communications protocol software for Sun Solaris include X.25 and HDLC LAPB

From one system slot, the Saturn Multiport can be used to:

- Access public data networks
- Link central locations to branch offices
- Connect high-speed modem banks and DSUs
- Add peripherals to department LANS

The Saturn 4522P (4 port) and the 8522P (8 port) multi-port serial controllers are Universal PCI boards compatible with the PCI Local Bus Specification Revision 2.2. The Saturn 4522P and 8522P cards operate in either a 5.0V or 3.3V signaling environment. However, these cards must be installed in PCI slots that provide 3.3V power.

The Saturn 4522P and 8522P PCI serial communications controllers offer data transfer rates up to 256 kbps synchronous and 230.4 kbps asynchronous, full duplex. Interface options include RS-232 and RS-422/485 with DB-25 connectors via an external breakout box. Optional synchronous data communications protocols including X.25 and HDLC are available for SPARC systems. Solstice (SunLink) protocols are fully supported.

The Saturn Multiport supports SPARC Solaris, Rev. 8, 9, and 10; Solaris x86, Rev. 2.6, 7, and 8; and Linux.



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Saturn 4522P/8522P Multiport™

PCI Serial Controller

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General Specifications

Model	Four port: 4522P Eight port: 8522P
PCI Compliance	PCI 2.2
Bus Width/Speed	32 Bits/33 MHz
Electrical Interface	RS-232, RS-422, or RS-485 with DB-25 connectors via an external breakout box
Connector Options	Male or Female DB-25 or RJ-45 with RS-232 Male DB-25 with RS-422 or RS-485*
Sync Data Rates	50-256 kbps, full duplex, simultaneously on all ports‡
Async Data Rates	50-230.4 kbps, full duplex, simultaneously on all ports‡
Start/Stop Bits	1 and 2
Data Bits	5, 6, 7, or 8 bits
Flow Control	Hardware: CTS/RTS Software: XON/XOFF
Modem Control	CD/DTR/DSR
Modem Support	Full support all lines
I/O Buffer	128 Bytes send and receive per port
Certification	FCC Class A , FCC Class B (8522P only), and CE
CCITT Compatibility	V.11/V.24/V.28/V.27
Power Supply	External autosense 5V DC RS-485: all differential drivers are switchable under software control

Physical Specifications

Card Dimensions	L - 6" (15.96 cm) x H - 4.200" (10.66 cm)
Card Weight	5.0 oz. (0.142 Kg)
DB-25 Breakout Box	4 port: 6.2" (15.7cm) x 3.5" (8.9cm) x 1.71" (4.34cm); 8 port: 11.4" (28.9 cm) x 3.5" (8.9 cm) x 1.71" (4.34 cm)

Breakout Box Rackmount Brackets	Fit standard 19" rackmounts
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Minimum System Requirements

OS Support	SPARC Solaris, Rev. 8, 9, and 10; Solaris x86, Rev. 2.6, 7, and 8; and Linux
Hardware	SPARC-compatible workstations and servers, with a PCI Bus, supporting Solaris. Intel-based system or compatible, with a PCI Bus, supporting the Solaris x86 operating system environment
Bus	PCI
Memory	16 Mbytes
Disk Drive	1 Mbyte free in / opt (Solaris)
CD-ROM Drive	Optional

Part Numbers

70-05001-01	Saturn 4522P Multiport Serial Controller (four ports). Connector option sold separately.
06-00046-00	4-port DB-25 male cable
06-00046-01	4-port DB-25 female cable
20-00056-00	4-port DB-25 male breakout box
20-00056-01	4-port DB-25 female breakout box
20-00075-00	4-port DB-25 male breakout box with four ports RS-422/485
70-05003-01	Saturn 8522P Multiport Serial Controller (eight ports). Connector option sold separately.
20-00061-00	8-port DB-25 male breakout box
20-00061-01	8-port DB-25 female breakout box
20-00081-00	8-port DB-25 male breakout box with eight ports RS-422/485

* Additional connector options available
‡RS-422/485 maximum speed is 200 kbps

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