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SIE
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SATURN | Series | 4 and 8 Port PCI Serial Controllers

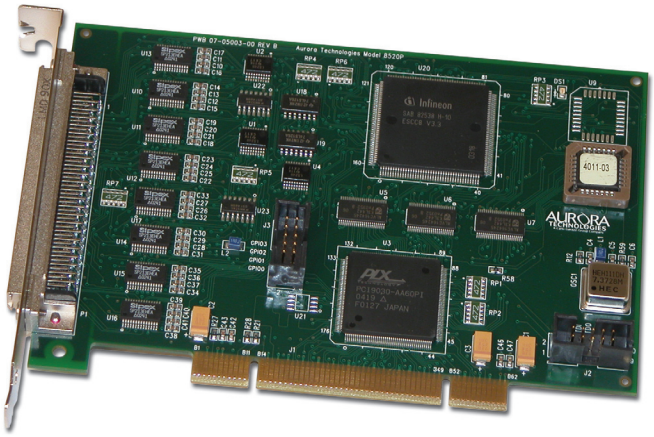
SIE Computing Solutions Saturn Series 4522P (4 port) and the 8522P (8 port) multiport serial controllers are Universal PCI boards compatible with the PCI Local Bus Specification Revision 2.2. The Saturn 4522P and 8522P cards operate in either a 5.0V or 3.3V signaling environment. However, these cards 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, or 10; and Solaris x86, Rev. 7, 8 or 10.

From one system slot, the Saturn Multiport can be used in Military and Commercial applications to:

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



Features and Benefits

- 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
- OS Support:
  - SPARC® Solaris®, Rev. 8, 9, and 10
  - Solaris x86, Rev. 7, 8 and 10
- Interface options include:
- RS-232
- RS-422/485 with DB-25 connectors via an external breakout box
- Compatible with Sun synchronous communications protocols

SIE Computing Solutions | 10 Mupac Drive | Brockton, MA 02301 | 1-508-588-6110 | www.sie-cs.com

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SATURN | Series | 4 and 8 Port PCI Serial Controllers

Design Specifications: 4522/8522

Physical
- 6" Long (15.96 cm)
- 4.2" High (10.66 cm)
- Weight is 5.0 oz approximately

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)

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

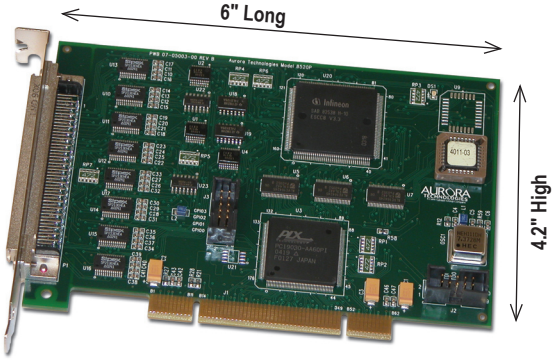
Modem Support
- Full support all lines

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 undersoftware control



Host 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 Numbering / Ordering Information:

• **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

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