

## 2S1P Native PCI Express Parallel Serial Combo Card with 16550 UART

Product ID: PEX2S5531P



The PEX2S5531P 2S1P PCI Express Card turns a PCI Express slot into two RS232 (DB9) serial ports and one Parallel port. The adapter card features a native PCI Express single chip design that allows you to take advantage of full PCI Express capability, providing improved speed and reliability while reducing the load applied to the CPU by as much as 48% over conventional serial cards which use a bridge chip design.

Compatible with a broad range of operating systems including Windows® 2000/XP/2003/Vista<sup>™</sup>/Windows 7/Server 2008 R2 (32 and 64-bit), Linux Kernel 2.6.11 and up, and MAC OS 10.4, this 2 Port Serial 1 Port Parallel PCI-Express Card also features an optional low profile/half-height bracket that allows the card to be installed in virtually any computer case, regardless of the case form factor.

This product is a replacement for our PEX2S5521P card.

Backed by a StarTech.com Lifetime warranty and free lifetime technical support.

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### **Data Sheet**

# Certifications, Reports and Compatibility











#### Applications

- Self-service automated machines and kiosks to control serial devices such as scales, touchscreens, magnetic card readers, bar code scanners, receipt printers, label printers
- POS retail applications in grocery stores, and any other retail store to control keyboards, cash drawers, receipt printers, card readers / card swipes, scales, and elevated displays on poles
- Bank teller workstations in either full profile or low profile versions to control their serial devices such as cash drawers, card readers / card swipes, printers, keypads / pinpads, pen pads
- Standard ATM automated teller machines to control keypads, receipt printer, card readers / card swipes, touchscreen LCD's, camera control, etc.
- Used to control multiple surveillance / security cameras in a parking structure, office building, etc.

#### Features

- Two high speed RS232 serial ports with data transfer rate up to 460.8 Kbps
- One parallel port with data transfer rate up to 1.5 Mbps
- Compliant with PCI Express base specifications revision 1.0a
- 128-byte deep FIFO per transmitter and receiver
  - Configurable in 5V, 12V, and RI (non-powered) modes
- Selectable power output on pin 9 for the serial port
- Native single-chip, single lane PCI Express
- Automated out-of-band flow control using CTS/RTS and DSR/DTR
- Automated in-band flow control using programmable Xon/Xoff in both directions

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## **Data Sheet**

HardwareWaranty2 YearsBus TypeCI ExpressCard TypeStandard Profile (LP bracket incl.)Chippet IDASIX - MCS9901CV-CCIndustry StandardsIEEE 1284ParallelParallelTerrareParallelParallelSraiaPort StyleIntegrated on CardPart Style100 StatsMax Baud Rate460.8 KbpsMaximum Data Transfer RateR5-232 - 460.8KbpsParallel1.5 MbpsStapported ProtocolsR5-232 - 460.8KbpsStapported ProtocolsR5-232 - 460.8KbpsStapported ProtocolsR5-232 - 460.9KbpsStapported ProtocolsR5-232 - 460.9Kbps <th></th> <th></th> <th></th>			
Card TypeStandard Profile (LP bracket incl.)Chipset IDASIX - MCS9901CV-CCIndustry StandardsIEEE 1284PCI Express base specifications revision 1.0aInterfaceParallelSerialPort StylePort StyleIntegrated on CardPorts2PerformanceFIFO128 BytesMaximum Data Transfer RateR5-232 - 460.8KbpsParallel1.5MbpsSerial ProtocolR5-232 - 460.8KbpsMaximum Data Transfer RateR5-232 - 460.8KbpsParallel - 1.5MbpsSerial ProtocolSerial ProtocolR5-232 - 460.8KbpsSoported ProtocolsEPP, ECP, SPP, PS/2Connector(s)Connector Type(s)Internal Ports1 - DE-25 (25 pin, D-Sub) Female 2 - DB-9 (9 pin, O-Sub) MaleSoftwareOS CompatibilityWindows@DDS, 95, 985E, 2000, POS Ready 2009, Embedded System 2009, CE 5.0/5.0, XP Embedded, 2000, XP, Vistar, 7, 8, 8, 1, 10 Windows Server@2003, 2008 R2, 2012, 2012 R2, 2016 Mac OS XP (00.4 to 10, 10.4 to 10.9 Univors Server@2003, 2008 R2, 2012, 2012 R2, 2016 Mac OS XP (00.4 to 10, 10.4 to 10, 9Special Notes /NoteSelectable power output on pin 9 of the seri		Warranty	2 Years
Chipset IDASIX - MCS9901CV-CCIndustry StandardsIEEE 1284Port Express base specifications revision 1.0aInterfaceParailelSerialSerialPort StyleIntegrated on CardPorts2PerformanceFIFOMax Baud Rate460.8 kbpsMaximum Data Transfer RateR5-232 - 460.8 kbpsParailel - 1.5MbpsSerial ProtocolR5-232 - 460.8 kbpsSupported ProtocolsEPP, ECP, SPP, PS/2Connector(s)Connector Type(s)Internal Ports1 - PCI Express x1 MaleExternal Ports1 - DB-25 (25 pin, D-Sub) FemaleInternal Ports1 - LP4 (4 pin; Molex-type Large Drive Power) MaleSoftwareOS CompatibilitySoftwareNoteSpecial Notes /NoteParaing Temperature-00°C to 80°C (14°F to 176°F)Storage Temperature-00°C to 80°C (14°F to 176°F)Storage Temperature-00°C to 80°C (14°F to 176°F)Storage Temperature-00°C to 100°C (-4°F to 212°F)PhysicalProduct HeightNote Length0.8 in [20 mm]	Hardware	Bus Type	PCI Express
Industry Standards     IEEE 1284 PCI Express base specifications revision 1.0a       Interface     Parallel       Serial     Serial       Port Style     Integrated on Card       Ports     2       Performance     FFO       Max Baud Rate     460.8 Kbps       Maximum Data Transfer Rate     R5-232 - 460.8 Kbps       Maximum Data Transfer Rate     R5-232 - 460.8 Kbps       Maximum Data Transfer Rate     R5-232 - 460.8 Kbps       Serial Protocol     R5-232 - 460.8 Kbps       Supported Protocols     EPP, ECP, SPP, PS/2       Connector Type(s)     1 - PCI Express x1 Male       External Ports     1 - D8-25 (25 pin, D-Sub) Female       2 - DB-9 (9 pin, D-Sub) Male     1 - D8-25 (25 pin, D-Sub) Seady 2009, Prive Power) Male       Internal Ports     1 - LP4 (4 pin; Molex-type Large Drive Power) Male       Software     Software     Software       Software     Note     Selectable power output on pin 9 of the serial port       Priveronmental     Humidity     Selectable power output on pin 9 of the serial port       Software     Operating Temperature     -00°C to 100°C (14°F to 176°F)       Storage Temperature     -00°C to 100°C (14°F to 176°F)       Storage Temperature     -00°C to 100°C (14°F to 176°F)       Storage Temperature     -00°C to 100°C (14°F to 121°F)       Fibra		Card Type	Standard Profile (LP bracket incl.)
NumberPCI Express base specifications revision 1.0aInterfaceParallelSerialSerialPort StyleIntegrated on CardPerformanceFFOMax Baud Rate460.8 KbpsMaximum Data Transfer RateR5-232 - 460.8 KbpsParallel - 1.5MbpsSerial ProtocolSerial ProtocolEPP, ECP, SPP, PS/2Connector (s)Connector Type(s)Internal Ports1 - DE-25 (25 pin, D-Sub) FemaleInternal Ports1 - DE-25 (25 pin, D-Sub) FemaleSoftwareSo CompatibilitySpecial Notes / RequirementsNotes Servere 2003, 2008 R2, 2012, 2012 R2, 2016 Windows BODS, 95, 985E, 2000, DSC Ress, 2000, 20		Chipset ID	ASIX - MCS9901CV-CC
Interface         Parallel Serial           Port Style         Integrated on Card           Ports         2           Performance         FIFO         128 Bytes           Max Baud Rate         460.8 Kbps           Maximum Data Transfer Rate         S-232 - 460.8 Kbps           Parallel - 1.5Mbps         Parallel - 1.5Mbps           Serial Protocol         RS-232 - 460.8 Kbps           Supported Protocols         EPP, ECP, SPP, PS/2           Connector (s)         Connector Type(s)         1 - DE 25 (25 pin, D-Sub) Female           Internal Ports         1 - DE 25 (25 pin, D-Sub) Female           Internal Ports         1 - DE 40 pin; Molex-type Large Drive Power) Male           Software         OS Compatibility         Windows BDOS, 95, 985E, 2000, POS Ready 2009, Embedded System 2009, 2012, 2012, 2012, R2, 2016           Mac OS X® 10.4 to 10.9         Linux 3.5 x to 4.11.x LTS Versions only           Software         Note         Seletable power output on pin 9 of the serial port           Perioduced Temperature         1.0°C to 80°C (14°F to 176°F)           Inux 3.5 x to 4.11.x LTS Versions only         Serial Totos?           Poparating Temperature         1.0°C to 80°C (14°F to 176°F)           Inux 3.5 x to 4.11.x LTS Versions only         Serial power output on pin 9 of the serial port <td< th=""><th></th><th>Industry Standards</th><th>IEEE 1284</th></td<>		Industry Standards	IEEE 1284
Serial         Serial           Port Style         Integrated on Card           Ports         2           Performance         FIFO         28 bytes           Max Baud Rate         60.8 Kbps           Paralle 1.5Mbps         Serial Protocol         Serial - 1.5Mbps           Serial Protocol         RS -232 - 460.8Kbps         Parallel - 1.5Mbps           Serial Protocol         RS -232 - 460.8Kbps         Parallel - 1.5Mbps           Serial Protocol         RS -232 - 460.8Kbps         Parallel - 1.5Mbps           Onnector Type(s)         IP (EP, SPP, SP/2)         Protocol           Connector Type(s)         1-DE 25 (25 pin, D-Sub) Female         - 20B-9 (9 pin, D-Sub) Male           Internal Ports         1-DE 40 (pin; Molex-type Large Drive Power) Male           Software         Software         Software         Software           Special Notes /         Net         Sectable power output on pin 9 of the serial port           Provinomental         Humidity         SecSoft Nat 10.2 Signation only           Special Notes /         Net         Sectable power output on pin 9 of the serial port           Paraler Signation         Sectable power output on pin 9 of the serial port           Special Notes /         Net         Sectable power output on pin 9 of the serial port <th></th> <th></th> <th>PCI Express base specifications revision 1.0a</th>			PCI Express base specifications revision 1.0a
Port StyleIntegrated on CardPorts2PerformanceFIFO128 BytesMax Baud Rate460.8 KbpsMaximum Data Transfer RateR5-232 - 460.8 Kbps Parallel - 1.5 MbpsSerial ProtocolRS-232Supported ProtocolsEPP, ECP, SPP, PS/2Connector Type(s)1 - PCI Express x1 Male 2 - DB-9 (9 pin, D-Sub) Female 2 - DB-9 (9 pin, D-Sub) Female 		Interface	Parallel
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PerformanceFIFO128 BytesMax Baud Rate460.8 KbpsMaximum Data Transfer RateRS-232 - 460.8Kbps Parailel - 1.5MbpsSerial ProtocolRS-232Supported ProtocolsEPP, ECP, SPP, PS/2Connector(s)Connector Type(s)1 - PCI Express x1 Male 2 - DB-9 (9 pin, D-Sub) Female 2 - DB-9 (9 pin, D-Sub) MaleSoftwareOS CompatibilityWindows@ DOS, 95, 98SE, 2000, POS Ready 2009, Embedded System 2009, CE 5.0/6.0, XP Embedded, 2000, XP, Vistar, 7, 8, 8.1, 10 Windows Server@ 2003, 2008 R2, 2012, 2012 R2, 2016 Mac OS X@ 10.4 to 10.9 Linux 3.5.x to 4.11.x LTS Versions onlySpecial Notes / RequirementsNoteSelectable power output on pin 9 of the serial portPhysical CharacteristicsProduct Height0.8 in [20 mm]Product LengthAtin [105 mm]0.8 in [20 mm]		Port Style	Integrated on Card
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Maximum Data Transfer RateRS-232 + 460.8Kbps Parallel - 1.5MbpsSerial ProtocolRS-232Serial ProtocolsEPP, ECP, SPP, PS/2Connector(s)Connector Type(s)1 - PCI Express x1 MaleExternal Ports1 - DB-25 (25 pin, D-Sub) Female 2 - DB-9 (9 pin, D-Sub) MaleInternal Ports1 - LP4 (4 pin; Molex-type Large Drive Power) MaleSoftwareSoftwareWindows® DOS, 95, 98SE, 2000, POS Ready 2009, Embedded System 2009, CE 5.0/6.0, XP Embedded, 2000, XP, Vista, 7, 8, 81, 10 Windows Server® 2003, 2008 R2, 2012, 2012 R2, 2016 Mac OS X® 10.4 to 10.9Special Notes / RequirementsNoteSelectable power output on pin 9 of the serial portInvironmentalHumidityS~85% RH - 10°C to 80°C (14°F to 176°F) - Storage TemperaturePhysical CharacteristicsProduct Height0.8 in [20 mm]Product LengthAlt in [105 mm]	Performance	FIFO	128 Bytes
Parallel - 1.5MbpsSerial ProtocolRS-232Supported ProtocolsEPP, ECP, SPP, PS/2Connector(s)Connector Type(s)1 - PCI Express x1 MaleExternal Ports1 - DB-25 (25 pin, D-Sub) Female 2 - DB-9 (9 pin, D-Sub) MaleInternal Ports1 - LP4 (4 pin; Molex-type Large Drive Power) MaleSoftwareOS CompatibilityWindows® DOS, 95, 985E, 2000, POS Ready 2009, Embedded System 2009, CE 5.0/6.0, XP Embedded, 2000, XP, Vista, 7, 8, 8.1, 10 windows Server@ 2003, 2008 R2, 2012, 2012 R2, 2016 Mac OS X® 10.4 to 10.9 Linux 3.5.x to 4.11.x LTS Versions onlySpecial Notes / RequirementsNoteSelectable power output on pin 9 of the serial portEnvironmentalHumidityS~85% RH - 10°C to 80°C (14°F to 176°F) Storage Temperature-10°C to 80°C (14°F to 212°F)Physical CharacteristicsProduct Length0.8 in [20 mm]Product Length4.1 in [105 mm]		Max Baud Rate	460.8 Kbps
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External Ports1 - DB-25 (25 pin, D-Sub) Female 2 - DB-9 (9 pin, D-Sub) MaleInternal Ports1 - LP4 (4 pin; Molex-type Large Drive Power) MaleSoftwareOS CompatibilityWindows® DOS, 95, 98SE, 2000, POS Ready 2009, Embedded System 2009, CE 5.0/6.0, XP Embedded, 2000, XP, Vista, 7, 8, 8.1, 10 Windows Server® 2003, 2008 R2, 2012, 2012 R2, 2016 Mac OS X® 10.4 to 10.9 Linux 3.5.x to 4.11.x LTS Versions onlySpecial Notes / RequirementsNoteSelectable power output on pin 9 of the serial portFinvironmental Physical CharacteristicsHumidity5~85% RH -10°C to 80°C (14°F to 176°F) -20°C to 100°C (-4°F to 212°F)Physical CharacteristicsProduct Height0.8 in [20 mm]Product Length4.1 in [105 mm]		Supported Protocols	EPP, ECP, SPP, PS/2
2 - DB-9 (9 pin, D-Sub) MaleInternal Ports1 - LP4 (4 pin; Molex-type Large Drive Power) MaleSoftwareOS CompatibilityWindows® DOS, 95, 98SE, 2000, POS Ready 2009, Embedded System 2009, CE 5.0/6.0, XP Embedded, 2000, XP, Vista, 7, 8, 8.1, 10 Windows Server® 2003, 2008 R2, 2012, 2012 R2, 2016 Mac OS X® 10.4 to 10.9 Linux 3.5.x to 4.11.x <i>LTS Versions only</i> Special Notes / RequirementsNoteSelectable power output on pin 9 of the serial portEnvironmental Operating Temperature Storage Temperature Characteristics-0°C to 80°C (14°F to 176°F) -20°C to 100°C (-4°F to 212°F)Physical CharacteristicsProduct Height0.8 in [20 mm]Product Length4.1 in [105 mm]	Connector(s)	Connector Type(s)	1 - PCI Express x1 Male
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SoftwareOS CompatibilityWindows® DOS, 95, 98SE, 2000, POS Ready 2009, Embedded System 2009, CE 5.0/6.0, XP Embedded, 2000, XP, Vista, 7, 8, 8.1, 10 Windows Server® 2003, 2008 R2, 2012, 2012 R2, 2016 Mac OS X® 10.4 to 10.9 Linux 3.5.x to 4.11.x LTS Versions onlySpecial Notes / RequirementsNoteSelectable power output on pin 9 of the serial portEnvironmentalHumidity5~85% RH -10°C to 80°C (14°F to 176°F) Storage Temperature-20°C to 100°C (-4°F to 212°F)Physical CharacteristicsProduct Height0.8 in [20 mm]Product Length4.1 in [105 mm]			2 - DB-9 (9 pin, D-Sub) Male
Embedded System 2009, CE 5.0/6.0, XP Embedded, 2000, XP, Vista, 7, 8, 8.1, 10 Windows Server® 2003, 2008 R2, 2012, 2012 R2, 2016 Mac OS X® 10.4 to 10.9 Linux 3.5.x to 4.11.x LTS Versions onlySpecial Notes / RequirementsNoteSelectable power output on pin 9 of the serial portEnvironmentalHumidity5~85% RHOperating Temperature Storage Temperature-10°C to 80°C (14°F to 176°F) -20°C to 100°C (-4°F to 212°F)Physical CharacteristicsProduct Height0.8 in [20 mm]Product Length4.1 in [105 mm]		Internal Ports	1 - LP4 (4 pin; Molex-type Large Drive Power) Male
Requirements       Humidity       5~85% RH         Doperating Temperature       -10°C to 80°C (14°F to 176°F)         Storage Temperature       -20°C to 100°C (-4°F to 212°F)         Physical Characteristics       Product Height       0.8 in [20 mm]         Product Length       4.1 in [105 mm]	Software	OS Compatibility	Embedded System 2009, CE 5.0/6.0, XP Embedded, 2000, XP, Vista, 7, 8, 8.1, 10 Windows Server® 2003, 2008 R2, 2012, 2012 R2, 2016 Mac OS X® 10.4 to 10.9
Operating Temperature       -10°C to 80°C (14°F to 176°F)         Storage Temperature       -20°C to 100°C (-4°F to 212°F)         Physical Characteristics       Product Height         Product Length       4.1 in [105 mm]	-	Note	Selectable power output on pin 9 of the serial port
Storage Temperature       -20°C to 100°C (-4°F to 212°F)         Physical Characteristics       Product Height       0.8 in [20 mm]         Product Length       4.1 in [105 mm]	Environmental	Humidity	5~85% RH
Physical Characteristics     Product Height     0.8 in [20 mm]       Product Length     4.1 in [105 mm]		Operating Temperature	-10°C to 80°C (14°F to 176°F)
Characteristics         Product Length       4.1 in [105 mm]		Storage Temperature	-20°C to 100°C (-4°F to 212°F)
		Product Height	0.8 in [20 mm]
Product Weight 4 oz [112 g]		Product Length	4.1 in [105 mm]
		Product Weight	4 oz [112 g]

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## **Data Sheet**

	Product Width	4.7 in [120 mm]
Packaging Information	Shipping (Package) Weight	7.3 oz [208 g]
What's in the Box	Included in Package	1 - 2 Port PCI-Express Serial Card
		1 - Parallel port (with ribbon cable)
		3 - Low Profile Brackets
		1 - Driver CD
		1 - Instruction Manual

Product appearance and specifications are subject to change without notice.

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