



Commercial Communication

The commercial communication became over the years an essential part of our life. You will find now days products related to the commercial communication everywhere in your daily life. Whether you go to your preferred bank to withdraw money from an ATM machine or just pay for your shopping at a POS station at a supermarket, gathering information about a foreign city at a KIOSK system, paying the toll fee at a toll collect station. This is where SUNIX comes in.

SUNIX makes daily life more convenient and safer for everybody, with high quality products reflecting the latest technologies and a future oriented strategy.



Technology meets daily life

Technology meets daily life

Commercial Communication



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All about Sunix

Starting off a 20 years experience in IO communication, to a comprehensive product portfolio and a competent and specialized R&D team, a large number of customers around the world benefit already from SUNIX knowledge to satisfy their special requirements.

Here you will get to know SUNIX and all the advantages SUNIX is offering its partners and YOU.

Contents

- 1. Company Profile*
- 2. Technology meets daily Life*
- 3. Products*



Founded 1986, SUNIX Corporation, a professional designer and manufacturer of communication products with its headquarter located in Taipei County, Taiwan, has about 350 employees worldwide. SUNIX Taiwan headquarter comprises two business units handling commercial and industrial communication. So SUNIX can offer its clients a total solution in the field of I/O and Ethernet communication. Starting at Serial I/O cards, move along Serial device server and media converter to Ethernet switches.

SUNIX History

In 1986, SUNIX started the business as a hardware manufacturer by developing I/O controller cards, floppy and hard disk controller interfaces and various types of controller chipsets to pave the way towards the computerized world.

In 1996, SUNIX entered into the world of serial interfaces by developing the world's first serial PCI controller chipset by integrating almost all circuit components in a single chipset.

In 2005, SUNIX introduced its new line of chipsets (SUN8899 / SUN8989), designed specifically for the Serial to Ethernet communication, to the market.

A second business unit was established in 2005, devoted to develop and serve the market with products used in industrial serial communication.

SUNIX Commercial Communication business unit

Since more than 20 years SUNIX Commercial communication business unit provides high performance and high quality products to the market. We apply our years of expertise to the development of I/O Multi-port Serial Boards, Multi-port Parallel Boards, I/O CardBus.

You will find SUNIX products everywhere in your daily life. Whether you go to your preferred bank to withdraw money from an ATM machine or just pay for your shopping at a POS station at a supermarket, gathering information about a foreign city at a KIOSK system, paying the toll fee at a toll collect station. Your daily life becomes more secure and easy through SUNIX products.



SUNIX mission & focus

You set up the highest claims on your products. You know that only quality, technology and a future oriented strategy resulting in user convenience increase the value of your products on the international market.

Our mission is to provide you with this high quality and cost effective products and the latest technologies meeting your requirements through our strong R&D team and our strict quality policy. SUNIX manufacturing plants are ISO 9001:2000 certified since 2001, furthermore SUNIX obtained the ISO 14001 certificate for its manufacturing plants in 2005.

You are our focus. We are committed to your success through our continual innovation and improvement, building a prosperous and loyal relation with you.



SUNIX Headquarters



SUNIX is the pioneer in developing serial / parallel communication products. Our company is dedicated to the continuous development and innovation of serial / parallel technology. SUNIX ascendancy started 1996 due to the release of the first self developed Serial and Parallel ASIC chipsets (SUN1689 / SUN1699 / SUN1888 / SUN1889). These ASIC chipsets are the foundation technology in SUNIX wide range of product solutions. We successfully combined the high performance UART with Burst Data Mode, DMA, PCI Bridge, INT, and EEPROM into a single chipset solution, thereby creating complete lines of products that are highly reliable and have ultra low RMA rate.

SUNIX, furthermore developed many other advanced technologies such as 128K-byte FIFO buffer, hardware flow control, RS-422/485 handshaking communication, Auto RTS signal control (ARSC™) for RS-485 communication, hardware COM port remapping, and the True universal PCI card. These advanced technologies provide our customers around the world with high performance, highly reliable, and best value solutions for their applications.

SUNIX continues its ascendancy with the introduction of its new line of chipsets (SUN8899 / SUN8989) designed specifically for the Serial to Ethernet communication product lines in 2005. The creation of these chipsets had lead to the development of a full range of high performance and high quality serial device servers, and other Industrial Ethernet solutions.

SUNIX R&D Team

SUNIX R&D team is most resourceful and competent in system integration. The team consists of several task groups with each specializing in Software, Firmware, Electrical Layout, and Mechanical Design.

For this reason, SUNIX has always been the leader in providing the most compatible and reliable solutions in the market, as well we have the most flexibility to create customized solutions for our customers.

To further assure our customers in the reliability of SUNIX serial communication products and as well to ensure more stable systems and compatibility, SUNIX had put considerably great effort in driver development and improvement. Today SUNIX full range of serial communication products is certified by Microsoft WHQL. This logo represents that SUNIX serial driver passed the Microsoft Windows Hardware Quality Labs (WHQL) testing. This is verification for compatibility of our hardware with Microsoft operating systems.





Furthermore SUNIX offers its customers a comprehensive set of software tools, named COMLab.

This software contains the following tools:

1. Speeder

This tool will help you to analyze the serial data communication. It will show the current status of every available communication port, including port settings, TX / RX – performance and furthermore any occurring hard- and software error.

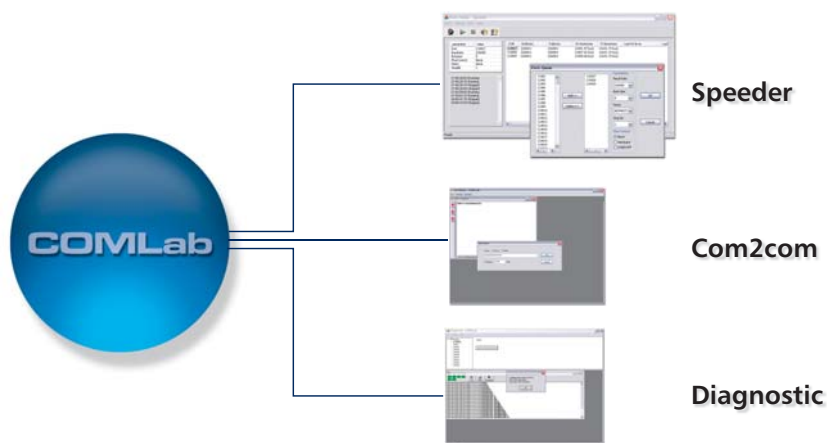
This will help customers to adjust the serial data communication to their environment.

2. COM2COM

This tool will show the current status of the modem signals belonging to serial data communication ports. Transfer data interactively via standard modem protocols.

3. Diagnostic

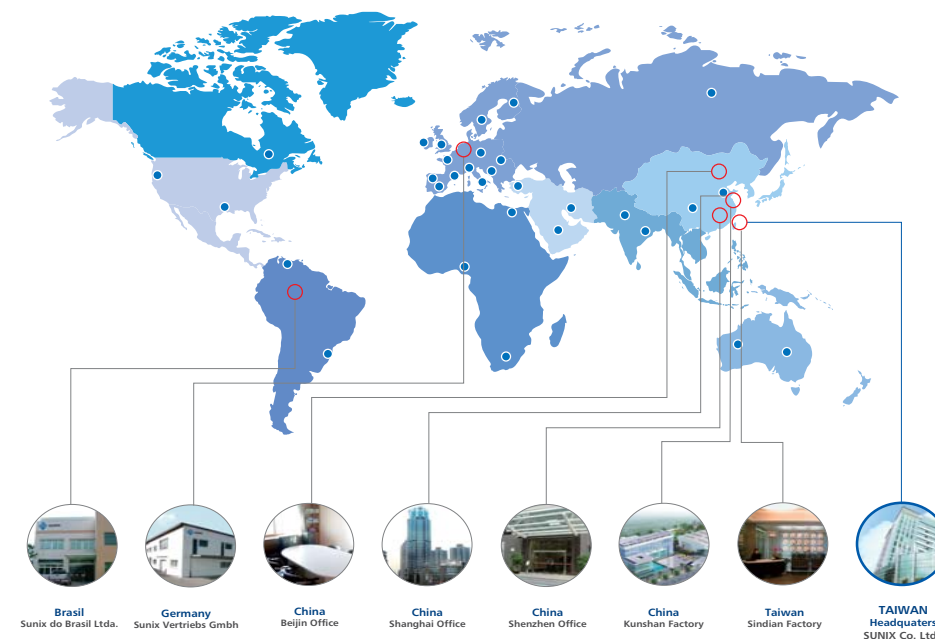
Here you will find all information about your installed communication cards. This tool provides internal and external testing of UART, IRQ and modem signals (TxD / RxD, CTS / RTS, DTR / DSR, DTR / DCD). This tool works only with installed SUNIX boards



SUNIX Worldwide OEM / ODM Business

To satisfy you with first class service, SUNIX opened affiliates and branch offices worldwide. You will find SUNIX in North- and South-America, Europe, Africa, Asia and Australia. SUNIX products are present in more than 65 countries.

Through this global network SUNIX is able to offer a comprehensive package to its OEM / ODM clients. Starting from an individual product and software design, the investigation of applicable laws and standards to the accompaniment of your whole project, SUNIX brings your project to success.



SUNIX Commitment to A Strict Quality Policy

SUNIX re-audits all its, ISO 9001:2000 certified, manufacturing facilities yearly to satisfy you with highest quality products and best services.

SUNIX took great invest to assure highest quality to its products. Therefore, we use only high quality dye, imported from Japan. The dye has a unique quality in dissipating heat from the PCB effectively, to ameliorate the reliability of the PCB and its components.

Therefore we can offer you a 5 year warranty, to give you our absolute assurance that you will get the most reliable products available on the market.

We stand for our products and with you.

Note: The 5 year warranty start with the date of delivery. SUNIX will replace or repair defective products, in case these were installed and used within their specification.



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SUNIX Environmental Policy

At SUNIX, we are very conscious taking great care for the well being of our world. We take part in ensuring a better future / world for our children.



SUNIX got certified in 2005 for the ISO 14001 certification. ISO 14001 is an internationally accepted specification for an "Environmental Management System".

Environmental protection is integral to the company's continual improvement process, to meet the expectations of the community, our customers and employees.

SUNIX Corporation is committed to:

- Meet or exceed the compliance requirements of all applicable environmental legislation and regulations
- Promote the prevention of pollution
- Continually improve the effectiveness of our environmental management system

SUNIX utilized the European RoHS directive at first stage to maintain a clean and safe environment for the world and the future of our children. SUNIX ensures the use of environmental friendly packing material, used to process and ship its products, furthermore to the requirements of the European RoHS directive.

SUNIX Technical Support

Our Technical support group works closely with our R&D team to help you to solve problems quickly and with satisfactory results.

Every customer is welcomed to contact our technical support group with his questions by mean of email, phone call, or even post mail.

Our technical support engineers also keep up to date list of FAQs they encountered, on our website to give users the resources needed to perform basic troubleshooting tasks.

Besides, SUNIX will hold seminars to introduce new products and technical trainings in vary countries around the world.



Technology meets daily life

Can you imagine a day without SUNIX products, how much our daily life is related to the commercial communication? Let's introduce the Miller family and one day in their life.





It is breakfast time; Robert, Emily and Lucy are enjoying their breakfast at home. Today it's Robert's and Emily's tenth wedding anniversary. They are now discussing how they will spend the day together.

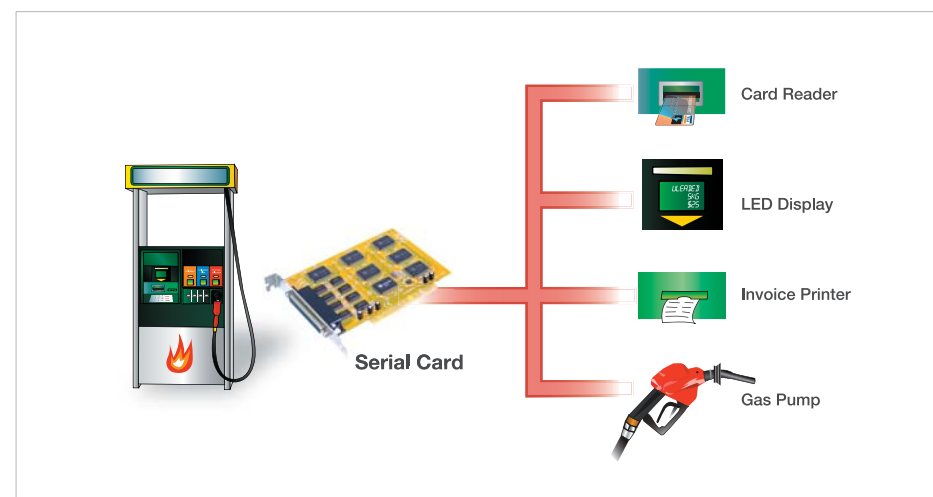




Robert is working for an international company and drives a car to go to work daily. Straight after leaving home he goes to the gas station to refuel the tank, to avoid running out of gas during his day. He stops his car, leaves it, picks up the spigot, refuels and watches the numbers on the gauge passing by.

And all with a little help of SUNIX products.

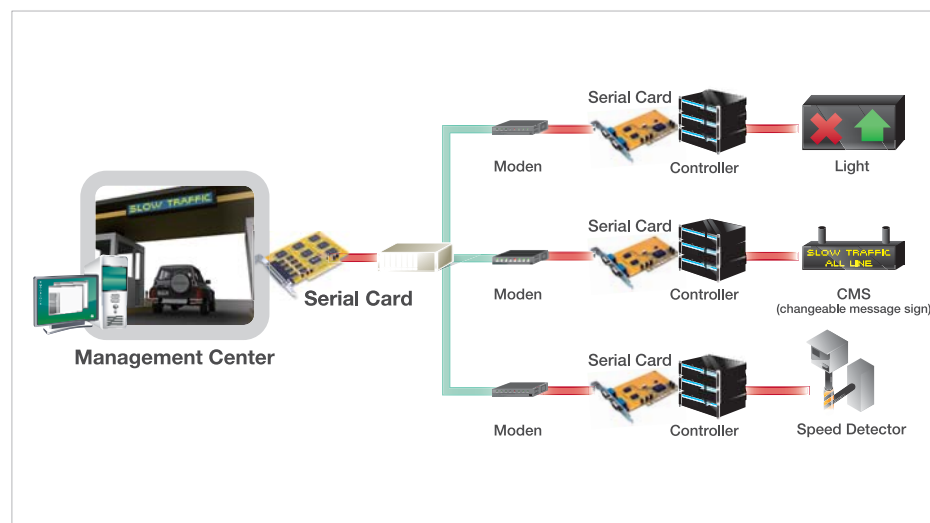
• Application Diagram





Leaving the gas station Robert turns his car towards the highway to head for his workplace. He has to pay a lot attention to the traffic as this is the rush hour, everybody is going to work. The traffic control system is giving him a helping hand not to over speed and drive carefully. Finally he passes by the toll collect station on his way to work.

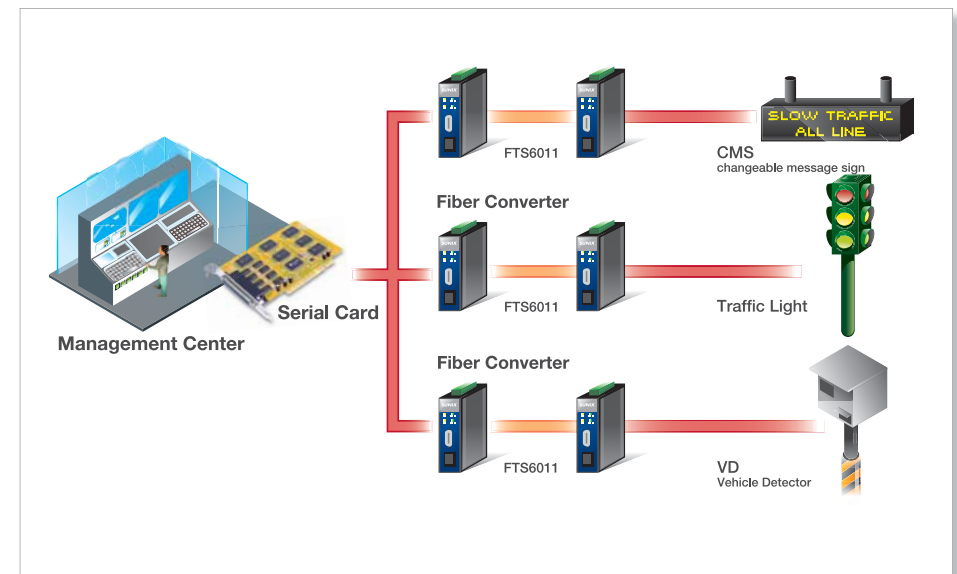
• Application Diagram





After leaving the highway, Robert comes to an intersection. The traffic lights turn red. Robert has to stop. This makes him feeling safe, so many not seen little helpers taking care for his life.

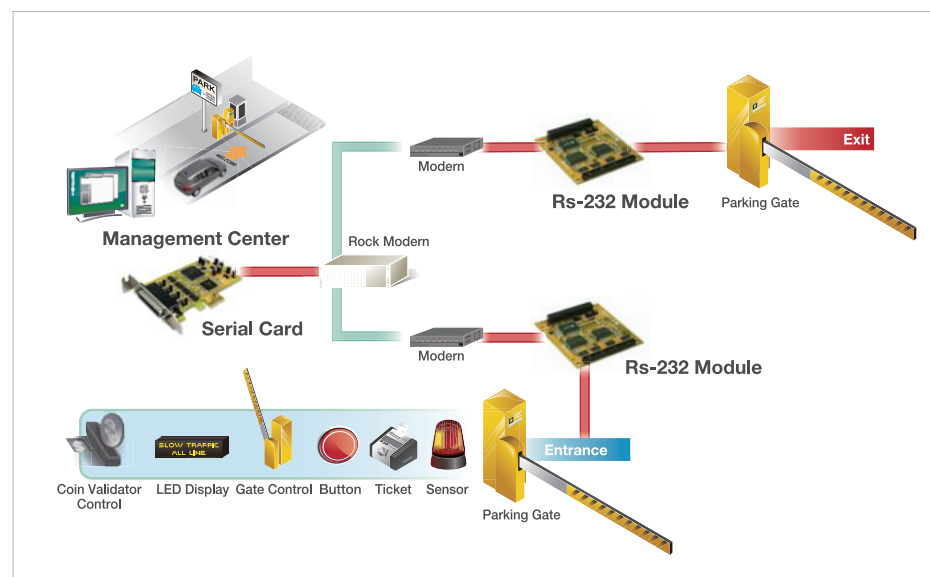
• Application Diagram





Finally arrived at the company Robert enters the parking lots. He presses the button at the ticket counter, getting the ticket. The gate lifts up and Robert heads to his parking lot.

• Application Diagram



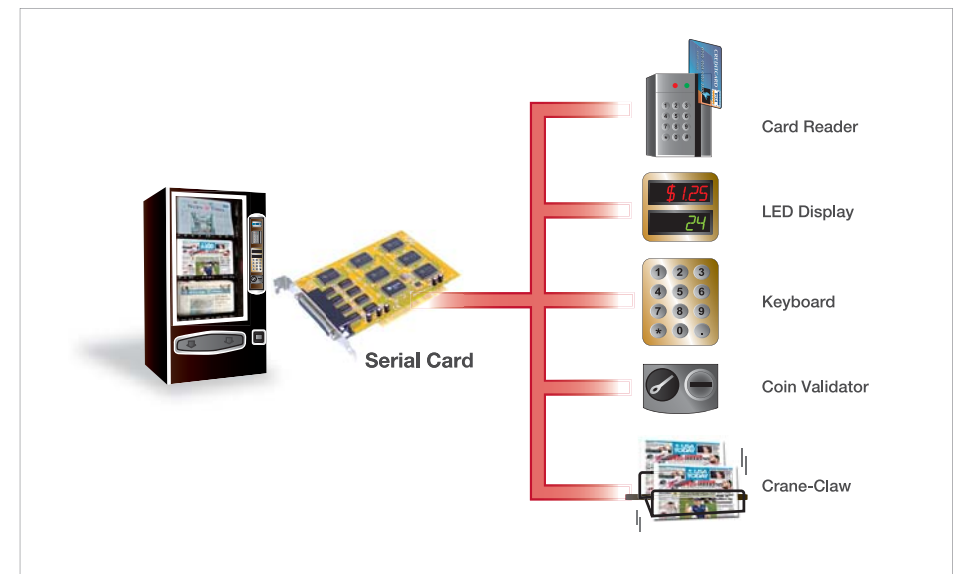
Newspaper Vending Machine

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Robert is a sales manager who updates himself daily with the latest global economical news buying a newspaper at the lobby, before starting work at the office.

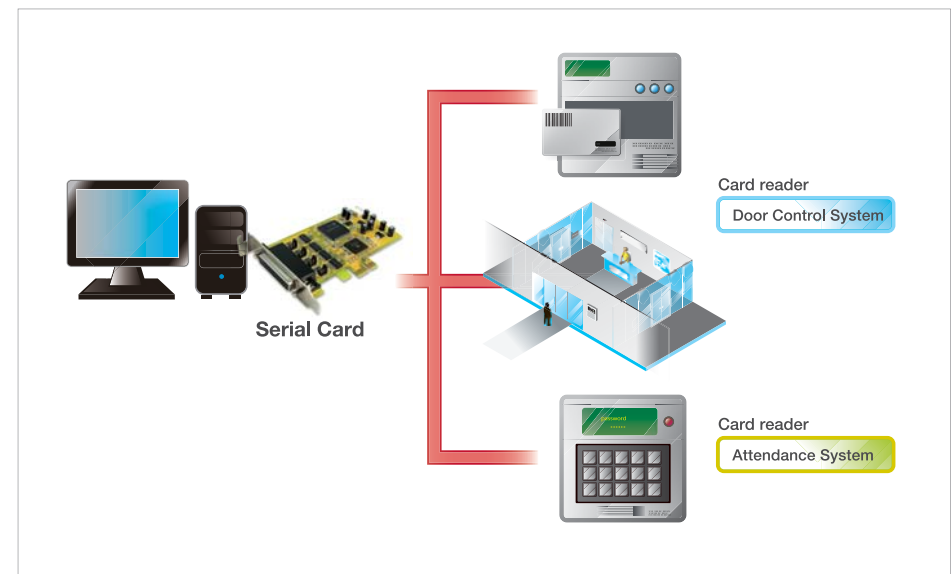
• Application Diagram





Robert dresses up his suit, after reading the international economic news. Filled with confidence a new business day, full of new challenges expects him. He goes to the ID card reader, taking out his ID to check in to his office.

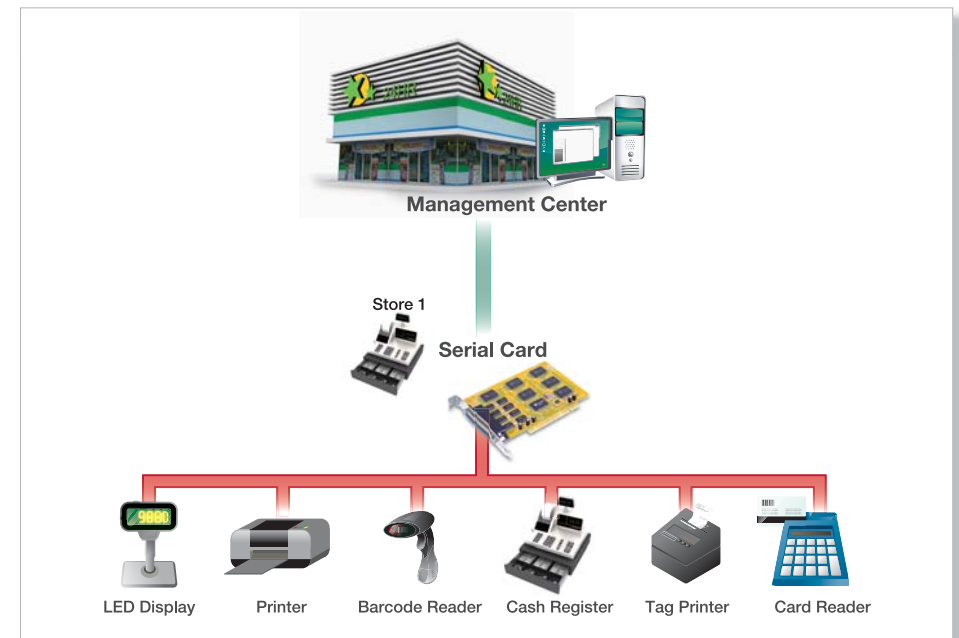
- Application Diagram





Emily puts Lucy to the school bus after Robert went to the office. Then she goes to a convenient store to pay the last month power bill. The store keeper scans the barcode on the bill, asks for the credit card from Emily and proceeds the deal via POS system.

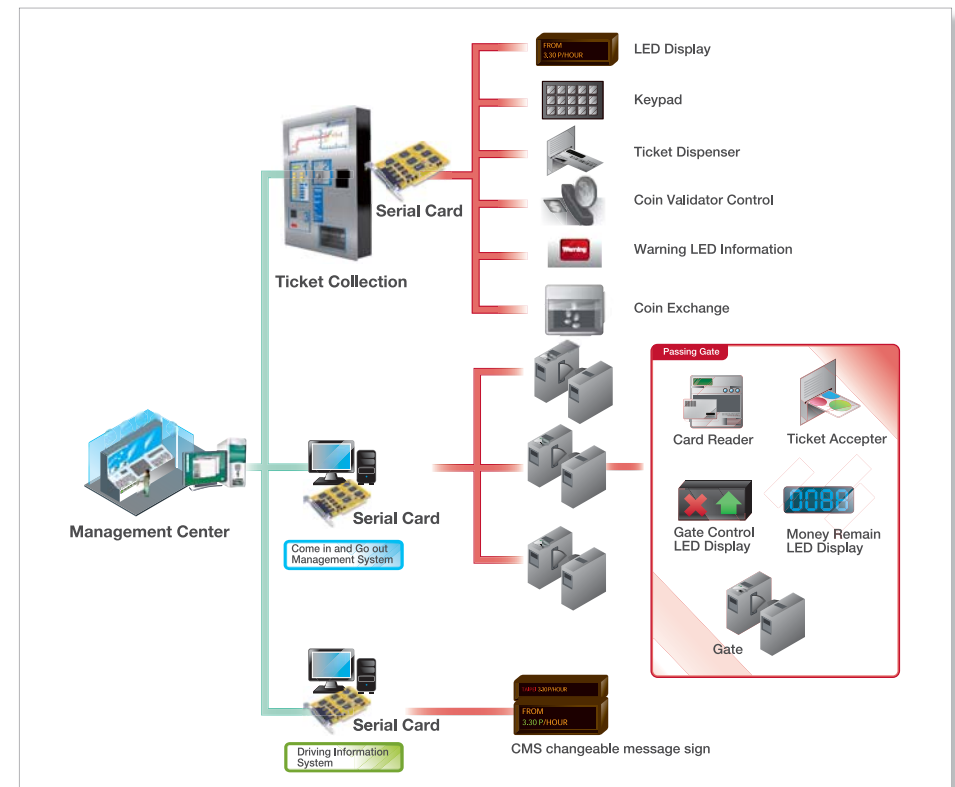
• Application Diagram





Emily takes now the underground to her preferred bank. She has to transfer Lucy's school expenses for the upcoming semester. She buys the token at the ticket machine, proceeds to the gate, inserts the token and finally enters the underground to reach the bank.

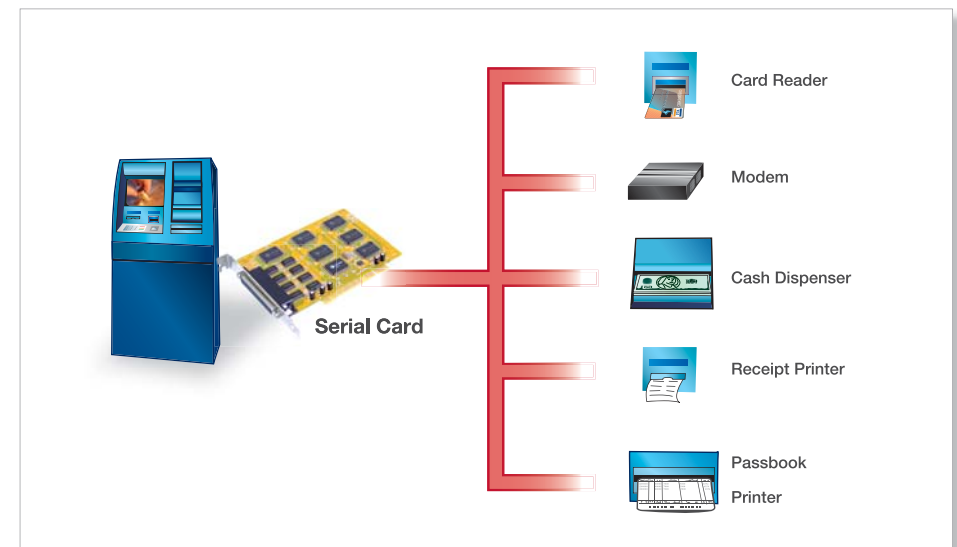
• Application Diagram

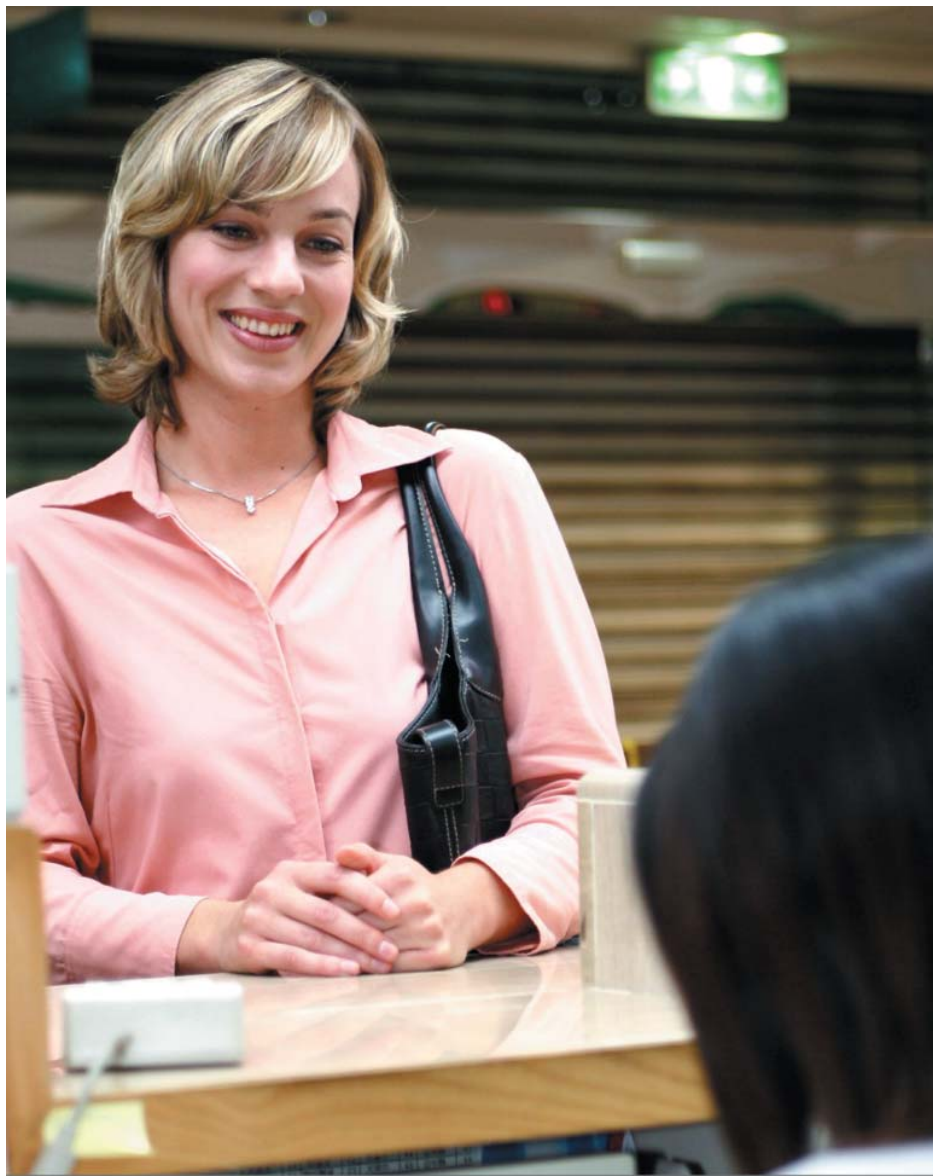




Upon arrival at the bank Emily withdraws money from the Bank's ATM. She inserts the bank card, enters code and amount, withdraws the money and takes her printed receipt.

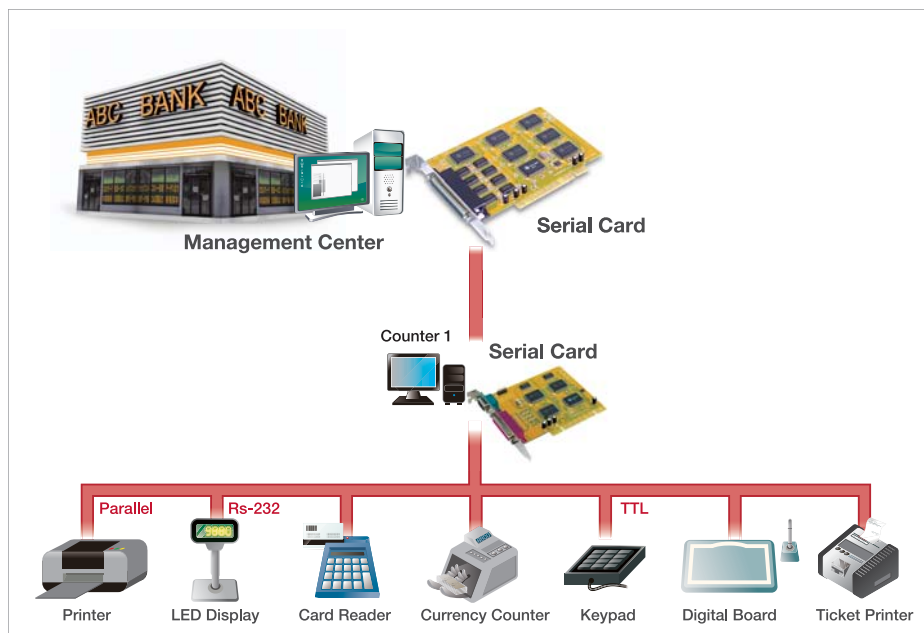
- Application Diagram





Emily proceeds to the bank counter, first drawing a number ticket and waiting for her call. She tells the bank clerk that she would like to transfer money to her daughter's school. The bank clerk checks the disposability, takes the bank book and prints the transfer to finalize it.

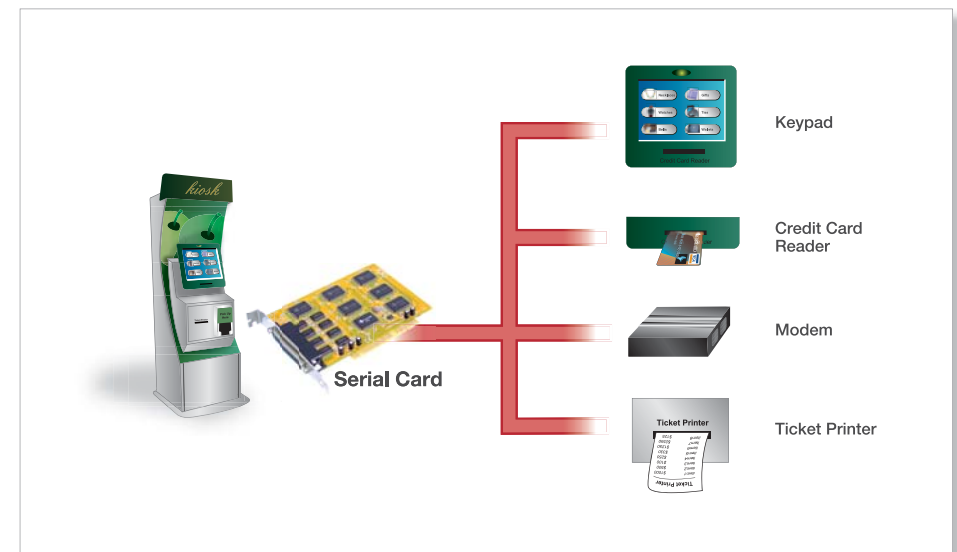
• Application Diagram





As the family wants to celebrate this day together, Emily goes to a KIOSK system near the bank to check the availability and then order online three movie tickets for the evening show.

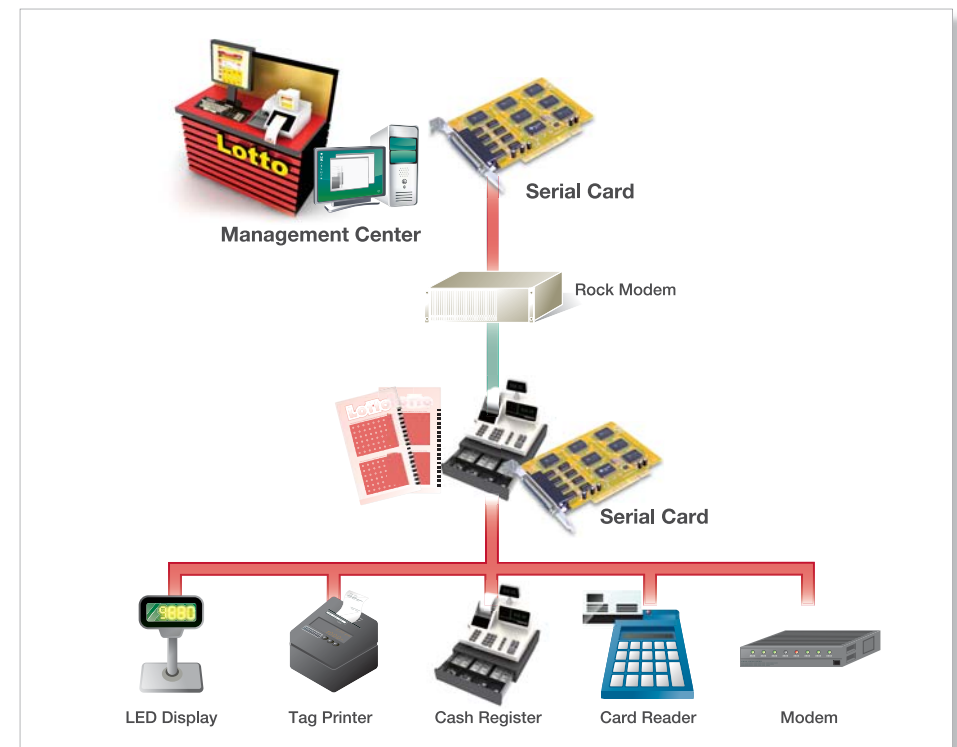
• Application Diagram





Emily thinks that she has good fortune, as it is Robert's and hers tenth wedding anniversary. So she goes to a lottery store to do the lottery. The store keeper wishes her good luck after the receipt is printed, which makes Emily happily smiling on her way back home.

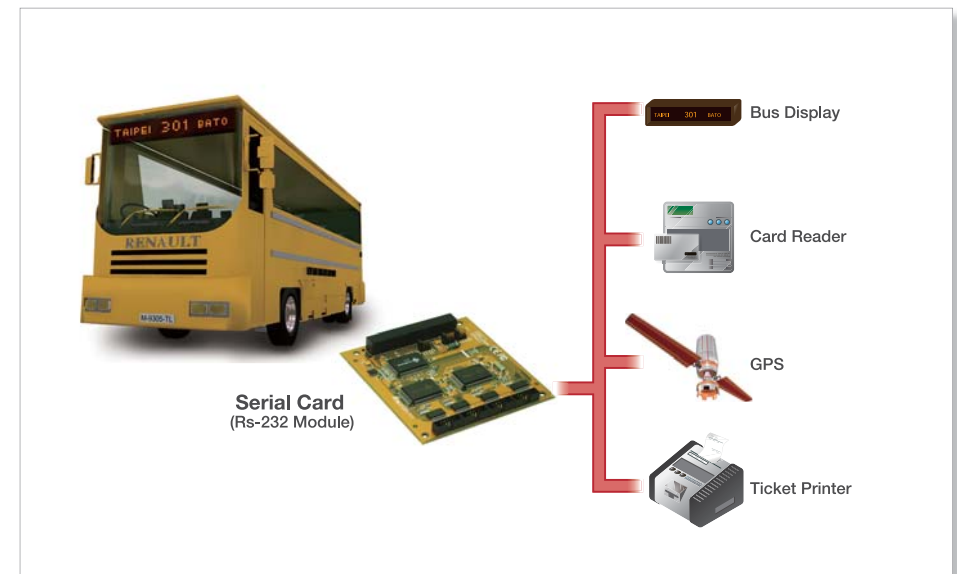
• Application Diagram





Lucy takes the bus everyday to school. She places the smartcard on a sensor at the bus entrance to proceed inside. The bus driver smiles and calls her a cute and polite little girl. Whereon Lucy smiles with a pleasure.

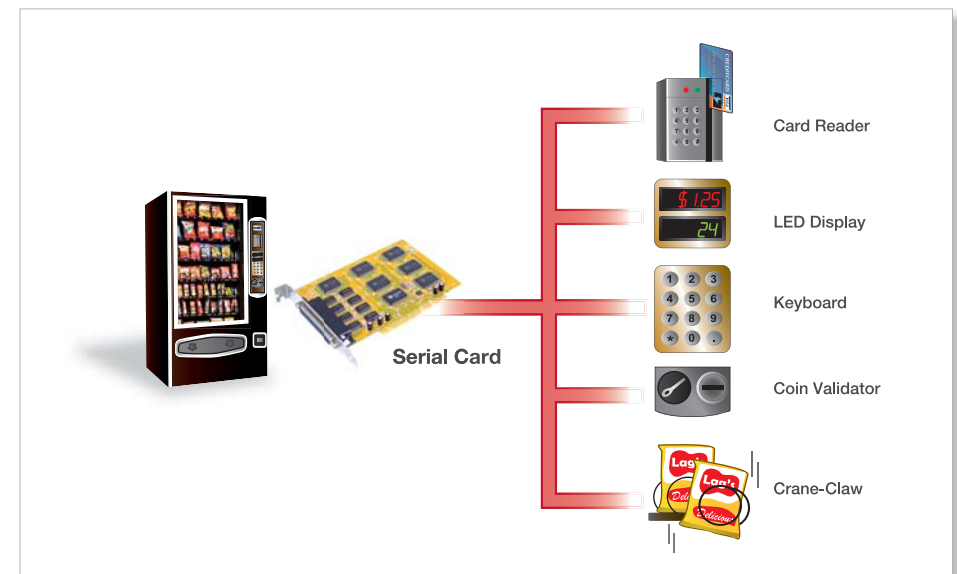
- Application Diagram





It's now already afternoon and Lucy gets thirsty. She inserts the coins and chooses her favorite drink with a vending machine near the play ground. Enjoying the drink, she is looking forward to spend the evening together with her parents.

• Application Diagram





Robert chose a dignified restaurant with the right atmosphere to celebrate this day. So Emily and Lucy dress up and meet with Robert in front of the restaurant. The restaurant uses a modern electronic ordering system, which automatically transfers all orders to the kitchen. The Millers enjoy their dinner and go for the movies afterwards.

• Application Diagram

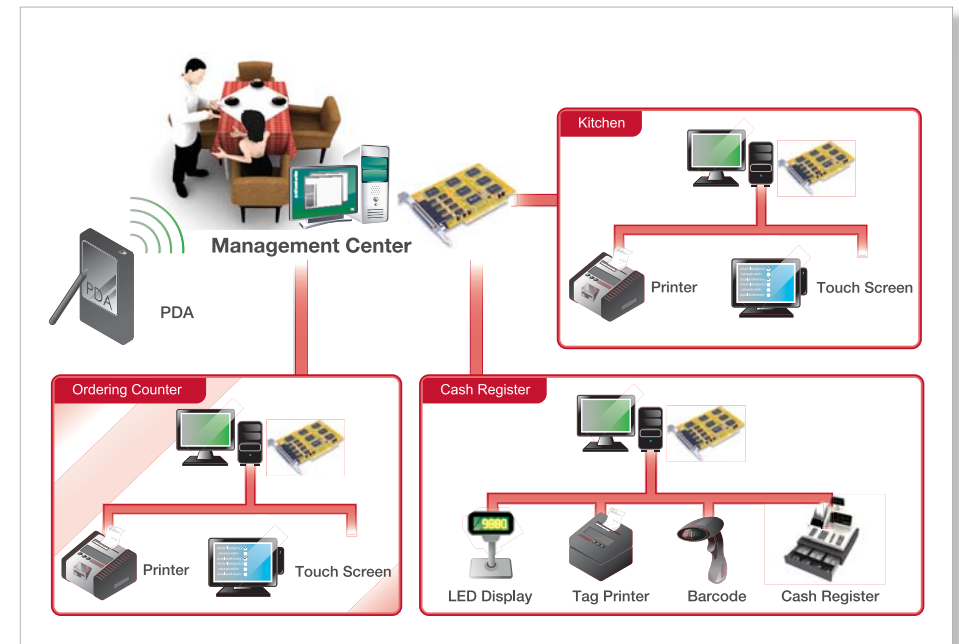


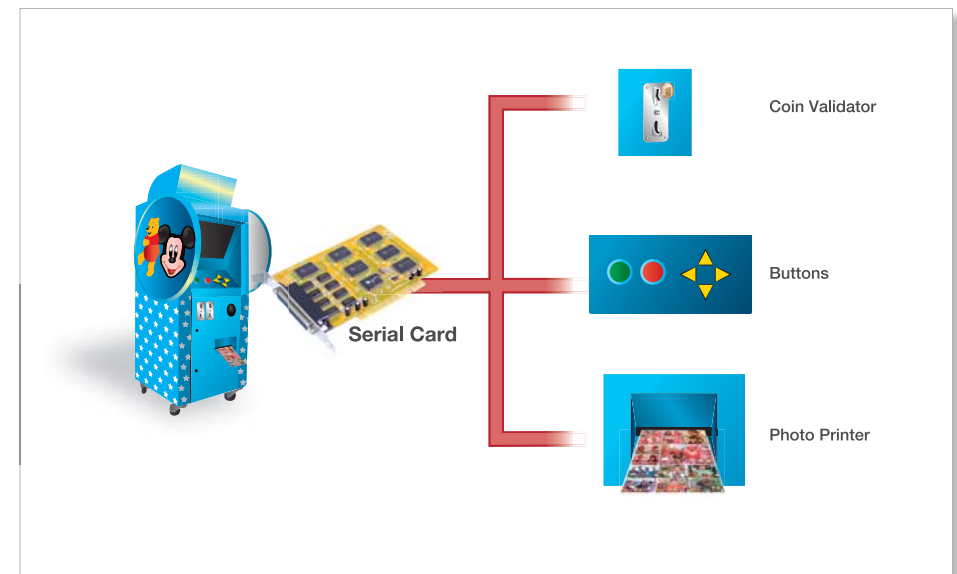
Photo Taking Machine

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Arrived at the movies Lucy suggests taking a photo in memory of her parent's tenth wedding anniversary. She chooses the frame for the family photo. Finished, taking the photo they go to the movie's lobby.

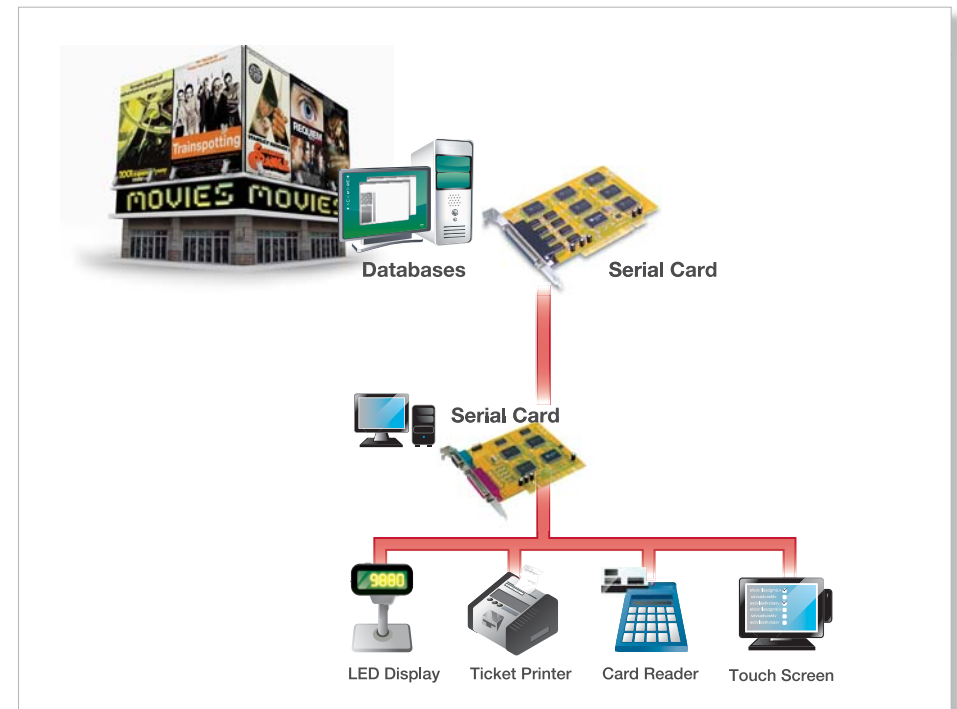
• Application Diagram





It's time for the movie now. They go to the counter to pick up their tickets to enter the movie hall. The Miller family enjoys a wonderful movie. Afterwards Lucy gets tired and the family heads back home.

• Application Diagram

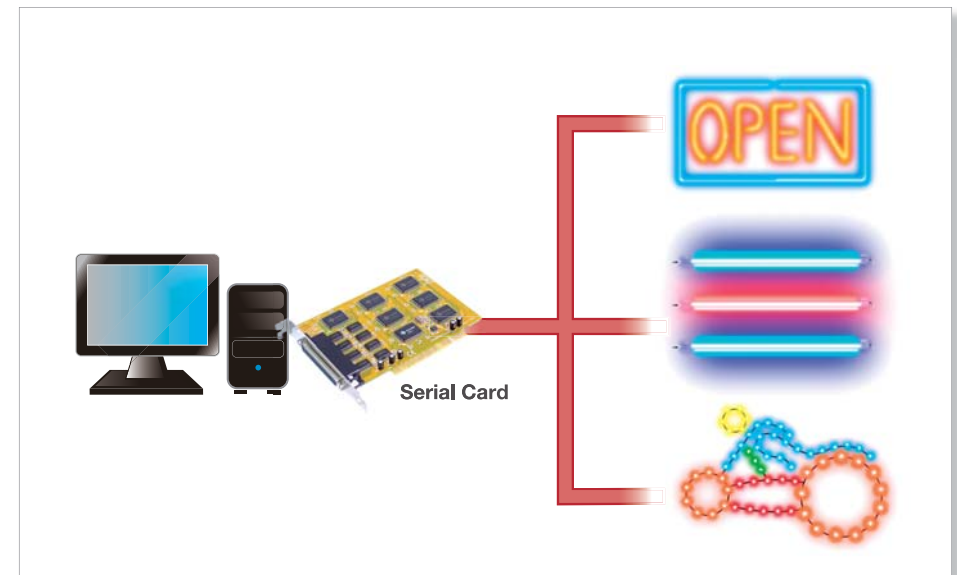




It's night already. Lucy sleeps in the car. Robert and Emily watch the city's neon lights; shining like stars, let them feel even more convenient and secure.

A more convenient and safer life thanks to SUNIX high quality products.

- Application Diagram



Sunix Products

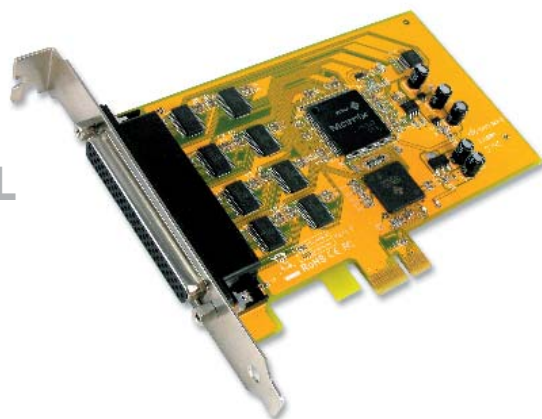
SUNIX is offering you and its partner a comprehensive RS-232 product portfolio, from PCI-Express and PCI, Express Card and PC Card, USB to Bluetooth. Relying on a powerful and experienced R&D team, SUNIX equips its products with its own high performance GoldenIO chipset. You will find on the following pages detailed product information reflecting SUNIX high quality standard relying on the latest technologies.





SER1640A SER8400A SER4400A / AL

16 / 8 / 4 port RS-232 Serial
PCI Express Board



Overview

SUNIX PCI Express serial communication boards meet the PCI Express Base Specification Revision 1.1. They are compatible with PCI Express x1, x2, x4, x8 and x16 lane Bus. The majorities of today's motherboards is not equipped with serial ports or only have one serial port. With SUNIX PCI Express serial board, users can add 16/8/4 serial ports to their system, allowing them to use serial devices further. Windows 2000 and later and Linux 2.4x kernel and later support the PCI Express bus system. SUNIX PCI Express Serial Board is the advanced and high efficient solution for commercial and industrial automation applications.

Features

- High performance SUNIX chipset solution 16C650 UART compatible.
- 10 / 8 / 4 / 2 RS-232 serial ports with a data transfer rate up to 921.6Kbps.
- Supports x1, x2, x4, x8, x16 (lane) PCI Express Bus throughput.
- Designed to meet PCI Express Bus Specification Revision 1.1.
- On-chip hardware auto flow control, guarantees no data loss.
- Built-in $\pm 15KV$ ESD protection for all serial signals.
- Certified by Microsoft WHQL, CE, FCC, RoHS approval.
- Support Microsoft Windows 2000 / XP / 2003 / Vista, Linux 2.4x / 2.6x.
- Ready for the Intel® / AMD® CPU and 32/64-bit operation system.
- 0°C ~ 60°C operating temperature.

Specification

Picture				
Item	SER1640A	SER8400A	SER4400A	SER4400AL
Port	16	8	4	4
BUS	PCI-E x1	PCI-E x1	PCI-E x1	PCI-E x1
ESD Protection	$\pm 15KV$	$\pm 15KV$	$\pm 15KV$	$\pm 15KV$
Baud Rate	50 ~ 921.6Kbps	50 ~ 921.6Kbps	50 ~ 921.6Kbps	50 ~ 921.6Kbps
PCB Connector	VHDC 68	DB62F	DB44F	DB44F
Bracket Space	1	1	1	1
Dimensions	120 x 100 mm	127 x 79 mm	110 x 62.5 mm	110 x 62.5 mm
Bracket	Std. 121 mm	Std. 121 mm	Std. 121 mm	L.P. 79.2 mm
DB9M Cable	2-set 40 / 100cm	1-set 40 / 100cm	1-set 40 / 100cm	1-set 40 / 100cm
DB25M Cable	2-set 40 / 100cm	1-set 40 / 100cm	1-set 40 / 100cm	1-set 40 / 100cm

Package Content

- 1 x Multi-port RS-232 PCI Express Board
- 1 x Driver CD ROM
- 1 x Quick Installation Guide

Optional Accessories

- 2 x VHDC68 to 8 DB9 / 25 Male connection cable, 40cm (1640A)
- 1 x DB62F to 8 ports DB9 / 25 Male connection cable, 40cm (8400A)
- 1 x DB44F to 4 ports DB9 / 25 Male connection cable, 40cm (4400A/AL)

Order Information

- SER1640A 16 ports RS-232 PCI Express Board
- SER8400A 8 ports RS-232 PCI Express Board
- SER4400A 4 ports RS-232 PCI Express Board
- SER4400AL 4 ports RS-232 PCI Express Low Profile Board

Note: Please find Pin Assignment definition.



4466A 4456A / AL 4437A

8 / 4 / 2 port RS-232 Serial
PCI Express Board



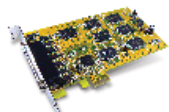






Overview

SUNIX PCI Express serial communication boards meet the PCI Express Base Specification Revision 1.1. They are compatible with PCI Express x1, x2, x4, x8 and x16 lane Bus. The majorities of today's motherboards is not equipped with serial ports or only have one serial port. With SUNIX PCI Express serial board, users can add 8/4/2 serial ports to their system, allowing them to use serial devices further. Windows 2000 and later and Linux 2.4x kernel and later support the PCI Express bus system. SUNIX PCI Express Serial Board is the advanced and high efficient solution for commercial and industrial automation applications.

Features

- Highly reliable SUNIX chipset solution 16C650 UART compatible.
- 8 / 4 / 2 RS-232 serial ports with a data transfer rate up to 115.2Kbps.
- Supports x1, x2, x4, x8, x16 (lane) PCI Express Bus throughput.
- Designed to meet PCI Express Bus Specification Revision 1.1.
- On-chip hardware auto flow control, guarantees no data loss.
- Built-in $\pm 2\text{KV}$ ESD protection for all serial signals.
- Certified by Microsoft WHQL, CE, FCC, RoHS approval.
- Support Microsoft Windows 2000 / XP / 2003 / Vista, Linux 2.4x / 2.6x & DOS.
- Ready for the Intel® / AMD® CPU and 32/64-bit operation system.
- $0^{\circ}\text{C} \sim 60^{\circ}\text{C}$ operating temperature.

Specification

Picture			
Item	4466A	4456A/AL	4437A
Port	8	4	2
BUS	PCI-E x1	PCI-E x1	PCI-E x1
ESD Protection	$\pm 2\text{KV}$	$\pm 2\text{KV}$	$\pm 2\text{KV}$
Baud Rate	115.2Kbps	115.2Kbps	115.2Kbps
PCB Connector	DB62F	DB44F	DB9M
Bracket Space	1	1	1
Dimensions	175 x 105 mm	151 x 52 mm	151 x 71 mm
Bracket	Std. 121 mm	Std. 121mm / LP.79.2 mm	Std. 121 mm
DB9M Cable	 1-set 40 / 100cm	 1-set 40 / 100cm	—
DB25M Cable	 1-set 40 / 100cm	 1-set 40 / 100cm	—

Package Content

- 1 x Multi-port RS-232 PCI Express Board
- 1 x Driver CD ROM
- 1 x Quick Installation Guide

Optional Accessories

- DB62 to 8 ports DB9/25 male connection cable, 40/100cm (4466A)
- DB44 to 8 ports DB9/25 male connection, ArrayBox (4466A)
- DB44 to 4 ports DB9/25 male connection cable, 40/100cm (4456A/AL)

Order Information

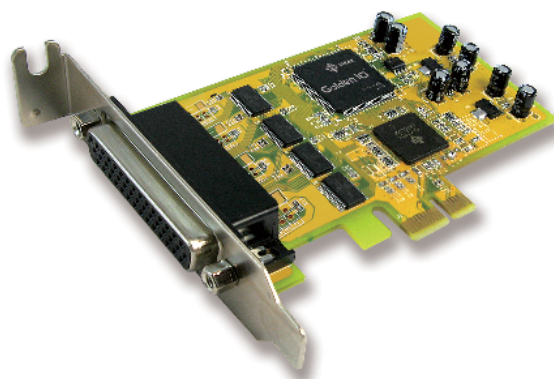
- 4466A 8 ports RS-232 PCI Express Board
- 4456A 4 ports RS-232 PCI Express Board
- 4456AL 4 ports RS-232 PCI Express Low Profile Board
- 4437A 2 ports RS-232 PCI Express Board

Note: Please find Pin Assignment definition.



SER4400P SER4400PL 4456PM 4456LL

4 port RS-232 Serial
Power Selectable PCI Express Board



Overview

SUNIX Power IO PCI Express serial communication boards support 5 or 12 Volt power output. The boards are designed for use in commercial applications without need to provide the serial devices with external power supplies. The boards meet the PCI Express Base Specification Revision 1.1. The Power IO board series has a 32 bytes onboard FIFO. SUNIX Power IO serial communication boards support the major operating systems on the market. We provide driver support for Microsoft Windows 32/64-bit platform, WinCE, Linux 2.2.x ~ 2.6.x kernels, making it the best and most economical solution for commercial and industrial applications.

Features

- High performance SUNIX UL7522EQ chipset solution 16C650 UART compatible.
- Four RS-232 serial ports with 5V / 12V power output.
- Supports PCI Express Bus power and systems power supply output.
- Designed to meet PCI Express Bus Specification Revision 1.1.
- On-chip hardware auto flow control, guarantees no data loss.
- Built-in $\pm 15\text{KV}$ ESD protection for all serial signals.
- Certified by Microsoft WHQL, CE, FCC, RoHS approval.
- Support Microsoft Windows 2000 / XP / 2003 / Vista, Linux 2.4x / 2.6x & DOS.
- Ready for the Intel® / AMD® CPU and 32/64-bit operation system.
- $0^{\circ}\text{C} \sim 60^{\circ}\text{C}$ operating temperature.

Specification

Picture				
Item	SER4400P	SER4400PL	4456PM	4456LL
Port	4	4	4	4
BUS	PCI-E x1	PCI-E x1	PCI-E x1	PCI-E x1
Protection	15KV ESD	15KV ESD	15KV ESD	15KV ESD
Baud Rate	50 ~ 921.6Kbps	50 ~ 921.6Kbps	50 ~ 230.6Kbps	50 ~ 230.6Kbps
PCB Connector	DB44F	DB44F	DB44F	DB44F
Bracket Space	1	1	1	1
Dimensions	110 x 62.5 mm	110 x 62.5 mm	110 x 62.5 mm	110 x 62.5 mm
Bracket	Std. 121 mm	L.P. 79.2 mm	Std. 121 mm	L.P. 79.2 mm
DB9M Cable	 1-set 40 / 100cm	 1-set 40 / 100cm	 1-set 40 / 100cm	 1-set 40 / 100cm
DB25M Cable	 1-set 40 / 100cm	 1-set 40 / 100cm	 1-set 40 / 100cm	 1-set 40 / 100cm

Package Content

- 1 x Multi-port RS-232 PCI Express Board
- 1 x Driver CD ROM
- 1 x Quick Installation Guide

Order Information

- SER4400P 4 ports Power Selectable RS-232 PCI Express Board
- SER4400PL 4 ports Power Selectable RS-232 PCI Express Low Profile Board
- 4456PM 4 ports Power Selectable RS-232 PCI Express Board
- 4456LL 4 ports Power Selectable RS-232 PCI Express Low Profile Board

Note: Please find Pin Assignment definition.



4479AM

2 port RS-232 &
1 port IEEE1284 Parallel
PCI Express Board





Overview

SUNIX 4479AM PCI Express Multi-I/O communication board provides an independent high speed RS-232 serial and IEEE 1284 parallel interface. It is compatible with PCI Express x1, x2, x4, x8 and x16 lane Bus. Windows 2000 and later and Linux 2.4x kernel and later support the PCI Express bus system. This IO board is designed for commercial applications to connect RS-232 serial devices. It provides the option to select between 5V and 12V to provide power to the connected RS-232 serial devices through the ninth pin of the DB9 male connector.

Features

- Highly reliable SUNIX SUN1998 single chipset solution.
- Two RS-232 and one IEEE1284 Parallel port.
- Full single-lane (or x1) PCI Express throughput.
- Designed to meet PCI Express Bus Specification, Revision 1.1.
- RS-232 serial ports with 5 / 12 V power output.
- IEEE 1284-1994 compliant supports
 - SPP (Standard Parallel Port)
 - EPP (Enhanced Parallel Port)
 - ECP (Enhanced Capability Port)
 - BPP (Bi-direction Parallel Port)
- Industrial grade design for stability and reliability.
- Built-in 1.5A fuse to prevent connected devices from damage by over current.
- Certified by Microsoft WHQL, CE, FCC, RoHS approval.
- Support Microsoft Windows, MAC, Linux, and DOS.
- Support Microsoft Windows Win 3x / 9x / ME / NT / 2000 / XP / 2003(32-64-bit) / Vista, Linux 2.2x / 2.4x / 2.6x.
- Ready for the Intel® / AMD® CPU and 32/64-bit operation system.
- 0°C ~ 60°C operating temperature.

Specification

Picture	
Item	4479AM
Port	2 port RS-232, 1 port IEEE 1284
BUS	PCI-E x1
ESD Protection	±2KV
Baud Rate RS-232	50~115.2Kbps
Speed IEEE 1284	2.7 MB/s
Mode IEEE 1284	SPP / EPP / ECP / BPP
PCB Connector	2 x DB9M, 1 x DB25F
Bracket Space	2
Dimensions	120 x 70 mm
Bracket	Std. 121 mm
DB9M Cable	

Package Content

- 1 x Multi IO PCI Express Board
- 2 x 13 Pin Header to DB25F flat cable with bracket
- 1 x Driver CD ROM
- 1 x Quick Installation Guide

Order Information

- 4479AM 2 ports RS-232 & 1 port IEEE1284 Parallel PCI Express Board

Note: Please find Pin Assignment definition.



4418A 4408A

2 / 1 port IEEE-1284 Parallel
PCI Express Board




Overview

SUNIX PCI Express parallel communication boards meet the PCI Express Base Specification Revision 1.1. They are compatible with PCI Express x1, x2, x4, x8 and x16 lane Bus. The majority of today's motherboards is not equipped with a parallel port. With SUNIX PCI Express parallel board, users can add 2 / 1 parallel ports to their system, allowing them to use parallel devices further. Windows 2000 and later and Linux 2.4x kernel and later support the PCI Express bus system. SUNIX PCI Express Parallel Board is the advanced and high efficient solution for commercial and industrial automation applications.

Features

- Highly reliable SUN1888 IEEE1284 chipset solution.
- Two or one IEEE1284 Parallel ports.
- Supports x1, x2, x4, x8, x16 (lane) PCI Express Bus throughput.
- Designed to meet PCI Express Bus Specification Revision 1.1.
- IEEE 1284-1994 compliant supports
 - SPP (Standard Parallel Port)
 - ERP (Enhanced Parallel Port)
 - EGP (Enhanced Capability Port)
 - BPP (Bi-direction Parallel Port)
- Certified by Microsoft WHQL, CE, FCC, RoHS approval.
- Support Microsoft Windows WinCE.NET / 3x / 9x / ME / NT / 2000 / XP / 2003(32-64-bit) / Vista, Linux 2.2x / 2.4x / 2.6x & DOS.
- Ready for the Intel® / AMD® CPU and 32/64-bit operation system.
- 0°C ~ 60°C operating temperature.

Specification

Picture		
Item	4418A	4408A
Port	2	1
BUS	PCI-E x1	PCI-E x1
PCB Connector	DB25F	DB25F
Bracket Space	2	1
Dimensions	120 x 94 mm	120x94 mm
Bracket	Std. 121 mm	LP.79.2 mm
DB9M Cable		—
Application	Commercial Automation	

Package Content

- 1 x Multi-port IEEE-1284 Parallel PCI Express Board
- 1 x Driver CD ROM
- 1 x Quick Installation Guide
- Cable (4418A only)

Order Information

- 4418A 2 ports IEEE-1284 Parallel PCI Express Board
- 4408A 1 port IEEE-1284 Parallel PCI Express Board

Note: Please find Pin Assignment definition.



SER1600A SER8000A SER4000A / AL 4037A4

16 / 8 / 4 / 2 port RS-232 Serial
PCI Board



Overview

With SUNIX Universal PCI serial communication boards, users can add 16/8/4/2 serial ports to their system, allowing them to use serial devices further. The board is compatible with both 32 / 64-bit PCI architecture supporting 3.3 and 5V. SUNIX Universal PCI serial communication boards support the major operating systems on the market. We provide driver support for Microsoft Windows 32/64-bit platform, WinCE, Linux 2.2.x ~ 2.6.x kernels, making it the best and most economical solution for commercial and industrial applications.

Features

- High Speed SUNIX GolenIO chipset solution 16C650 UART compatible.
- 16 / 8 / 4 / 2 RS-232 serial ports with a data transfer rate up to 921.6Kbps.
- Universal PCI compatible with 64 / 32-bit PCI-X / PCI Bus and 3.3 / 5V.
- On-chip hardware auto flow control, guarantees no data loss.
- Built-in $\pm 15\text{KV}$ ESD protection for all serial signals.
- Certified by Microsoft WHQL, CE, FCC, RoHS approval.
- Support Microsoft Windows WinCE.NET / 3x / 9x / ME / NT / 2000 / XP / 2003(32-64-bit) / Vista, Linux 2.2x / 2.4x / 2.6x & DOS.
- Ready for the Intel® / AMD® CPU and 32/64-bit operation system.
- 0°C ~ 60°C operating temperature.

Specification

Picture					
Item	SER1600A	SER8000A	SER4000A	SER4000AL	4037A4
Port	16	8	4	4	2
BUS	Universal PCI	Universal PCI	Universal PCI	Universal PCI	Universal PCI
Protection	15KV ESD	15KV ESD	15KV ESD	15KV ESD	15KV ESD
Baud Rate	50~921.6Kbps	50~921.6Kbps	50~921.6Kbps	50~921.6Kbps	50~921.6Kbps
PCB Connector	VHDC68	DB62F	DB44F	DB44F	DB9M
Bracket Space	1	1	1	1	1
Dimensions	120 x 100 mm	144 x 76 mm	110 x 62.5 mm	110 x 62.5 mm	120 x 64 mm
Bracket	Std. 121 mm	Std. 121 mm	Std. 121 mm	L.P. 79.2 mm	Std. 121 mm
DB9M Cable	2-set 40 / 100cm	1-set 40 / 100cm	1-set 40 / 100cm	1-set 40 / 100cm	—
DB25M Cable	2-set 40 / 100cm	1-set 40 / 100cm	1-set 40 / 100cm	1-set 40 / 100cm	—

Package Content

- 1 x Multi-port RS-232 PCI Board
- 1 x Driver CD ROM
- 1 x Quick Installation Guide

Order Information

- SER1600A 16 ports RS-232 PCI Board
- SER8000A 8 ports RS-232 PCI Board
- SER4000A 4 ports RS-232 PCI Board
- 4037A4 4 ports RS-232 PCI Low Profile Board

Note: Please find Pin Assignment definition.



4066R 4066J 4066U

8 port RS-232 Serial
PCI Board



Overview

With SUNIX Universal PCI serial communication boards, users can add 8 serial ports to their system, allowing them to use serial devices further. The board is compatible with both 32 / 64-bit PCI architecture supporting 3.3 and 5V. The 4066 board series has a 32 bytes onboard FIFO. SUNIX Universal PCI serial communication boards support the major operating systems on the market. We provide driver support for Microsoft Windows 32/64-bit platform, WinCE, Linux 2.2.x ~ 2.6.x kernels, making it the best and most economical solution for commercial and industrial applications.

Features

- Highly reliable SUNIX SUN1889/SUN1699 chipset solution 16C650 UART compatible.
- 8 RS-232 serial ports with a data transfer rate up to 115.2Kbps.
- Universal PCI compatible with 64/32-bit PCI-X / PCI Bus and 3.3 / 5V.
- On-chip hardware auto flow control, guarantees no data loss.
- Built-in $\pm 2\text{KV}$ ESD protection for all serial signals.
- Certified by Microsoft WHQL, CE, FCC, RoHS approval.
- Support Microsoft Windows WinCE.NET / 3x / 9x / ME / NT / 2000 / XP / 2003(32-64-bit) / Vista, Linux 2.2x / 2.4x / 2.6x & DOS.
- Ready for the Intel® / AMD® CPU and 32 / 64-bit operation system.
- $0^{\circ}\text{C} \sim 60^{\circ}\text{C}$ operating temperature.

Specification

Picture			
Item	4066R	4066J	4066U
Port	8	8	8
BUS	Universal PCI	Universal PCI	Universal PCI
ESD Protection	$\pm 2\text{KV}$	$\pm 2\text{KV}$	$\pm 2\text{KV}$
PCB Connector	50~115.2Kbps	50~115.2Kbps	50~115.2Kbps
Baud Rate	DB62F	RJ45	Pin Header
Bracket Space	1	2	1
Dimensions	144 x 102 mm	155 x 102 mm	164 x 63 mm
Bracket	Std. 121 mm	Std. 121 mm	L.P. 79.2 mm
Accessory	—		—
DB9M Cable	 1-set 40 / 100cm	 8-set 30cm	—
DB25M Cable	 1-set 40 / 100cm	 8-set 30cm	—
Application	POS	Building Automation	Embedded for RackMount system

Package Content

- 1 x Multi-port RS-232 PCI Board
- 1 x Driver CD ROM
- 1 x Quick Installation Guide

Order Information

- 4066R 8 ports RS-232 PCI Board
- 4066J 8 ports RS-232 PCI Board
- 4066U 8 ports RS-232 PCI Embedded Board

Note: Please find Pin Assignment definition.



4056A / AL 4056D 4056U

4 port RS-232 Serial
PCI Board



Overview

With SUNIX Universal PCI serial communication boards, users can add 4 serial ports to their system, allowing them to use serial devices further. The board is compatible with both 32 / 64-bit PCI architecture supporting 3.3 and 5V. The 4056 board series has a 32 bytes onboard FIFO. SUNIX Universal PCI serial communication boards support the major operating systems on the market. We provide driver support for Microsoft Windows 32/64-bit platform, WinCE, Linux 2.2.x ~ 2.6.x kernels, making it the best and most economical solution for commercial and industrial applications.

Features

- Highly reliable SUNIX SUN1889/SUN1699 chipset solution 16C650 UART compatible.
- 4 RS-232 serial ports with a data transfer rate up to 115.2Kbps.
- Universal PCI compatible with 64/32-bit PCI-X / PCI Bus and 3.3 / 5V.
- On-chip hardware auto flow control, guarantees no data loss.
- Built-in $\pm 2KV$ ESD protection for all serial signals.
- Certified by Microsoft WHQL, CE, FCC, RoHS approval.
- Support Microsoft Windows WinCE.NET / 3x / 9x / ME / NT / 2000 / XP / 2003(32-64-bit) / Vista, Linux 2.2x / 2.4x / 2.6x & DOS.
- Ready for the Intel® / AMD® CPU and 32/64-bit operation system.
- $0^{\circ}C \sim 60^{\circ}C$ operating temperature.

Specification

Picture				
Item	4056A	4056AL	4056D	4056U
Port	4	4	4	4
BUS	Universal PCI	Universal PCI	Universal PCI	Universal PCI
ESD Protection	$\pm 2KV$	$\pm 2KV$	$\pm 2KV$	$\pm 2KV$
Baud Rate	50~115.2Kbps	50~115.2Kbps	50~115.2Kbps	50~115.2Kbps
PCB Connector	DB37F	DB44F	RJ45	Pin Header
Bracket Space	1	1	1	1
Dimensions	120 x 80 mm	120 x 64 mm	120 x 115 mm	128 x 50 mm
Bracket	Std. 121 mm	L.P. 79.2 mm	Std. 121 mm	L.P. 79.2 mm
DB9M Cable	1-set 40 / 100cm	1-set 40 / 100cm	8-set 30cm	4-set 30cm
DB25M Cable	1-set 40 / 100cm	1-set 40 / 100cm	8-set 30cm	—
Application	Transposition	Building Automation	ReMap legacy ISA Address	Embedded for RackMount system

Package Content

- 1 x Multi-port RS-232 PCI Board
- 1 x Driver CD ROM
- 1 x Quick Installation Guide

Optional Accessories

- DB44 to 4 ports DB9 / 25 male connection cable, 40/100cm (4056A/AL)
- DB37 to 4 ports DB9 / 25 male connection cable, 40/100cm (4056A)
- DB37 to 4 ports DB9 / 25 male connection Array Box (4056A)
- 8-pin RJ45 to DB9 / 25 Male connection cable, 30cm (4056D)
- 5x2 Pin Header to DB9 Male connection cable, 30cm (4056U)

Order Information

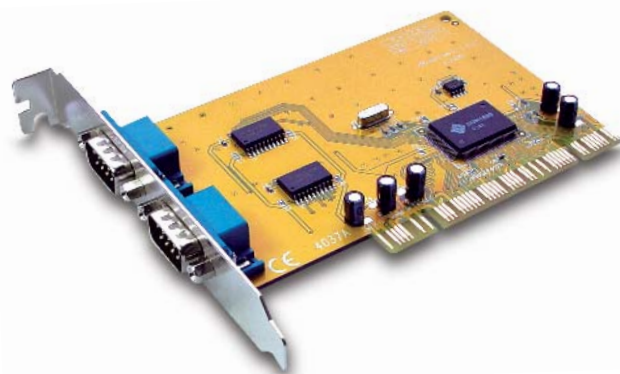
- 4056A 2 ports RS-232 PCI Board
- 4056AL 2 ports RS-232 PCI Low Profile Board
- 4056D 2 ports RS-232 PCI Board
- 4056U 2 ports RS-232 PCI Embedded Board

Note: Please find Pin Assignment definition.



4036A3V 4037A / AL 4037D 4037U

2 port RS-232 Serial
PCI Board



Overview

With SUNIX Universal PCI serial communication boards, users can add 2 serial ports to their system, allowing them to use serial devices further. The board is compatible with both 32 / 64-bit PCI architecture supporting 3.3 and 5V. The 4037 board series has a 32 bytes onboard FIFO. SUNIX Universal PCI serial communication boards support the major operating systems on the market. We provide driver support for Microsoft Windows 32/64-bit platform, WinCE, Linux 2.2.x ~ 2.6.x kernels, making it the best and most economical solution for commercial and industrial applications.

Features

- Highly reliable SUNIX SUN1889 chipset solution 16C650 UART compatible.
- 2 RS-232 serial ports with a data transfer rate up to 115.2Kbps.
- Universal PCI compatible with 64 / 32-bit PCI-X/PCI Bus and 3.3 / 5V.
- On-chip hardware auto flow control, guarantees no data loss.
- Built-in ± 2 to ± 15 KV ESD protection for all serial signals.
- Certified by Microsoft WHQL, CE, FCC, RoHS approval.
- Support Microsoft Windows WinCE.NET / 3x / 9x / ME NT / 2000 / XP / 2003(32-64-bit) / Vista, Linux 2.2x / 2.4 / 2.6x & DOS.
- Ready for the Intel® / AMD® CPU and 32/64-bit operation system.
- 0°C ~ 60°C operating temperature.

Specification

Picture					
Item	4036A3V	4037A	4037AL	4037D	4037U
Port	2	2	2	2	2
BUS	PCI 2.3 up 3.3V only	Universal PCI	Universal PCI	Universal PCI	Universal PCI
ESD Protection	± 2 KV	± 2 KV	± 2 KV	± 2 KV	± 2 KV
Baud Rate	50~115.2Kbps	50~115.2Kbps	50~115.2Kbps	50~115.2Kbps	50~115.2Kbps
PCB Connector	DB9M	DB9M	DB44F	DB9M	Pin Header
Bracket Space	1	1	1	1	1
Dimensions	120 x 78 mm	120 x 78 mm	120 x 64 mm	128 x 78 mm	128 x 50 mm
Bracket	Std. 121 mm	Std. 121 mm	L.P. 79.2 mm	Std. 121 mm	L.P. 79.2 mm
DB9M Cable	—	—	1-set 30cm	—	2-set 30cm
Application	transpotation	Building Automation	ReMap legacy ISA Address	Embedded for RackMount system	Embedded for RackMount system

Package Content

- 1 x Multi-port RS-232 PCI Board
- 1 x Driver CD ROM
- 1 x Quick Installation Guide

Optional Accessories

- DB44 to 2 ports DB9 male connection cable, 30cm (4037AL)
- 5x2 Pin Header to DB9 Male connection cable, 30cm (4037U)

Order Information

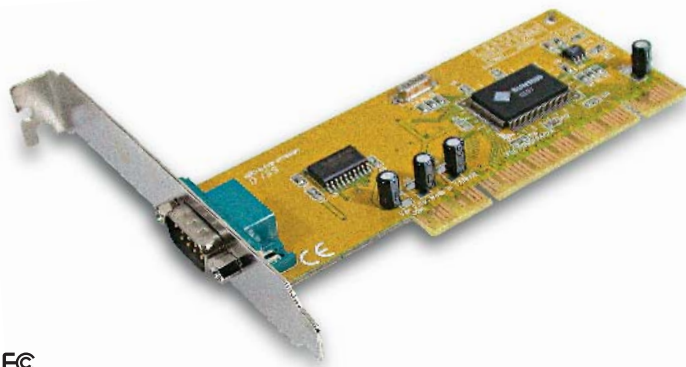
- 4036A3V 2 ports RS-232 PCI Board
- 4037A 2 ports RS-232 PCI Low Profile Board
- 4037AL 2 ports RS-232 PCI Board
- 4037D 2 ports RS-232 PCI Board
- 4037U 2 ports RS-232 PCI Embedded Board

Note: Please find Pin Assignment definition.



4027A / AL 4027D / DL

1 port RS-232 Serial
PCI Board



Overview

With SUNIX Universal PCI serial communication boards, users can add 1 serial port to their system, allowing them to use a serial device further. The board is compatible with both 32 / 64-bit PCI architecture supporting 3.3 and 5V. The 4027 board series has a 32 bytes onboard FIFO. SUNIX Universal PCI serial communication boards support the major operating systems on the market. We provide driver support for Microsoft Windows 32/64-bit platform, WinCE, Linux 2.2.x ~ 2.6.x kernels, making it the best and most economical solution for commercial and industrial applications.

Features

- Highly reliable SUNIX SUN1889 chipset solution 16C650 UART compatible.
- 1 RS-232 serial port with a data transfer rate up to 115.2Kbps.
- Universal PCI compatible with 64/32-bit PCI-X / PCI Bus and 3.3 / 5V.
- On-chip hardware auto flow control, guarantees no data loss.
- Built-in $\pm 2KV$ ESD protection for all serial signals.
- Certified by Microsoft WHQL, CE, FCC, RoHS approval.
- Support Microsoft Windows WinCE.NET / 3x / 9x / ME / NT 2000 / XP / 2003(32-64-bit) / Vista, Linux 2.2x / 2.4x / 2.6x & DOS.
- Ready for the Intel® / AMD® CPU and 32/64-bit operation system.
- 0°C ~ 60°C operating temperature.

Specification

Picture				
Item	4027A	4027AL	4027D	4027DL
Port	1	1	1	1
BUS	Universal PCI	Universal PCI	Universal PCI	Universal PCI
ESD Protection	$\pm 2KV$	$\pm 2KV$	$\pm 2KV$	$\pm 2KV$
Baud Rate	75~921.6Kbps	75~921.6Kbps	75~921.6Kbps	75~921.6Kbps
PCB Connector	DB9M	DB9M	DB9M	DB9M
Bracket Space	1	1	1	1
Dimensions	120 x 52 mm	120 x 52 mm	120 x 52 mm	120 x 52 mm
Bracket	Std. 121 mm	L.P. 79.2 mm	Std. 121 mm	L.P. 79.2 mm
Note	—	—	ReMap legacy ISA Address	ReMap legacy ISA Address

Package Content

- 1 x Single-port RS-232 PCI Board
- 1 x Driver CD ROM
- 1 x Quick Installation Guide

Order Information

- 4027A 1 port RS-232 PCI Board
- 4027AL 1 port RS-232 PCI Low Profile Board
- 4027D 1 port RS-232 PCI Board
- 4027DL 1 port RS-232 PCI Board Low Profile Board

Note: Please find Pin Assignment definition.



SER4000P / PL

4 port RS-232 Serial
Power Selectable PCI Board



Overview

SUNIX Power IO PCI serial communication boards support 5 or 12 Volt power output. The boards are designed for use in commercial applications without need to provide the serial devices with external power supplies. The boards are compatible with both 32 / 64-bit PCI architecture supporting 3.3 and 5V. The Power IO board series has a 32 bytes onboard FIFO. SUNIX Power IO serial communication boards support the major operating systems on the market. We provide driver support for Microsoft Windows 32/64-bit platform, WinCE, Linux 2.2.x ~ 2.6.x kernels, making it the best and most economical solution for commercial and industrial applications.

Features

- Highly reliable SUNIX UL7512EQ chipset solution 16C650 UART compatible.
- Four RS-232 serial ports with 5V/12V power output and a data transfer rate up to 921.6Kbps.
- Supports PCI Bus power and systems power supply output.
- Universal PCI compatible with 64 / 32-bit PCI-X / PCI Bus and 3.3 / 5V.
- On-chip hardware auto flow control, guarantees no data loss.
- Built-in $\pm 2KV$ ESD protection for all serial signals.
- Certified by Microsoft WHQL, CE, FCC, RoHS approval.
- Support Microsoft Windows WinCE.NET / 3x / 9x ME / NT / 2000 / XP / 2003(32/64-bit) / Vista, Linux 2.2x / 2.4x / 2.6x & DOS.
- Ready for the Intel® / AMD® CPU and 32/64-bit operation system.
- 0°C ~ 60°C operating temperature.

Specification

Picture		
Item	SER4000P	SER4000PL
Port	4	4
BUS	Universal PCI	Universal PCI
ESD Protection	$\pm 15KV$	$\pm 15KV$
Baud Rate	50~921.6Kbps	50~921.6Kbps
PCB Connector	DB44F	DB44F
Bracket Space	1	1
Dimensions	110 x 62.5 mm	110 x 62.5 mm
Bracket	Std. 121 mm	L.P. 79.2 mm
DB9M Cable	 1-set 40 / 100cm	 1-set 40 / 100cm
DB25M Cable	 1-set 40 / 100cm	 1-set 40 / 100cm

Package Content

- 1 x Multi-port RS-232 PCI Board
- 1 x Driver CD ROM
- 1 x Quick Installation Guide

Order Information

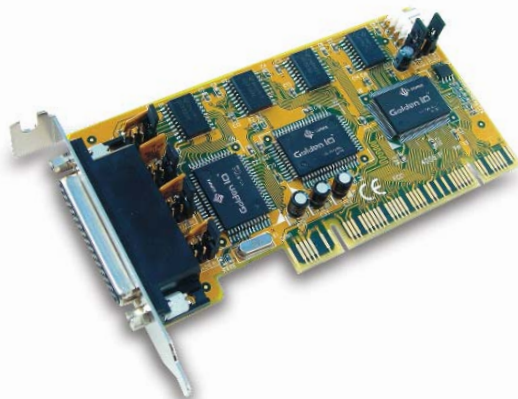
- SER4000P 4 ports Power Selectable RS-232 PCI Board
- SER4000PL 4 ports Power Selectable RS-232 PCI Express Low Profile Board

Note: Please find Pin Assignment definition.



4056P / PL 4037P / PL 4027P / PL

4 / 2 / 1 port RS-232 Serial
Power Selectable PCI Board










Overview

SUNIX Power IO PCI serial communication boards support 5 or 12 Volt power output. The boards are designed for use in commercial applications without need to provide the serial devices with external power supplies. The boards are compatible with both 32 / 64-bit PCI architecture supporting 3.3 and 5V. The Power IO board series has a 32 bytes onboard FIFO. SUNIX Power IO serial communication boards support the major operating systems on the market. We provide driver support for Microsoft Windows 32/64-bit platform, WinCE, Linux 2.2.x ~ 2.6.x kernels, making it the best and most economical solution for commercial and industrial applications.

Features

- Highly reliable SUNIX SUN1889/SUN1699 chipset solution 16C650 UART compatible.
- 4 / 2 / 1 RS-232 serial ports with 5V/12V power output.
- Supports PCI Bus power and systems power supply output.
- Universal PCI compatible with 64 / 32-bit PCI-X / PCI Bus and 3.3 / 5V.
- On-chip hardware auto flow control, guarantees no data loss.
- Built-in $\pm 2KV$ ESD protection for all serial signals.
- Certified by Microsoft WHQL, CE, FCC, RoHS approval.
- Support Microsoft Windows WinCE. NET / 3x / 9x ME / NT 2000 / XP / 2003 / Vista
Linux 2.2x / 2.4x 2.6x & DOS.
- Ready for the Intel® / AMD® CPU and 32 / 64-bit operation system.
- 0°C ~ 60°C operating temperature.

Specification

Picture			
Item	4056P / PL	4037P / PL	4027P / PL
Port	4	2	1
BUS	Universal PCI	Universal PCI	Universal PCI
ESD Protection	$\pm 2KV$	$\pm 2KV$	$\pm 2KV$
PCB Connector	75~115.2Kbps	75~115.2Kbps	75~115.2Kbps
Baud Rate	DB44F	DB44F	DB9M
Bracket Space	1	1	1
Dimensions	120 x 64 mm	120 x 64 mm	120 x 52 mm
Bracket	Std. 121 mm	Std. 121 mm	Std. 121 mm
Accessory	L.P. 79.2 mm	L.P. 79.2 mm	L.P. 79.2 mm
DB9M Cable	 1-set 40 / 100cm	 1-set 40 / 100cm	—
DB25M Cable	 1-set 40 / 100cm	 1-set 40 / 100cm	—
Application	Point of Sales System or Commercial Automation		

Package Content

- 1 x Multi-port RS-232 PCI Board
- 1 x Driver CD ROM
- 1 x Quick Installation Guide

Order Information

- 4056P 4 ports RS-232 Power Selectable PCI Board
- 4056PL 4 ports RS-232 Power Selectable PCI Low Profile Board
- 4037P 2 ports RS-232 Power Selectable PCI Board
- 4037PL 2 ports RS-232 Power Selectable PCI Low Profile Board
- 4027P 1 port RS-232 Power Selectable PCI Board
- 4027PL 1 port RS-232 Power Selectable PCI Low Profile Board

Note: Please find Pin Assignment definition.



4079AM 4079LM

2 port RS-232 &
1 port IEEE1284 PCI Board







Overview

SUNIX 4079 PCI Multi-I/O communication board provides an independent high speed RS-232 serial and IEEE 1284 parallel interface. It provides the option to select between 5V and 12V to provide power to the connected RS-232 serial devices through the ninth pin of the DB9 male connector. The board is designed for use in commercial applications without need to provide the serial devices with external power. The board is compatible with both 32 / 64-bit PCI architecture supporting 3.3 and 5V. It has a 32 bytes onboard FIFO. The SUNIX Power IO Multi IO communication board supports the major operating systems on the market. We provide driver support for Microsoft Windows 32/64-bit platform, WinCE, Linux 2.2.x ~ 2.6.x kernels, making it the best and most economical solution for commercial and industrial applications.

Features

- Highly reliable SUNIX SUN1998 UART / Parallel chipset solution.
- Two RS-232 and one IEEE1284 Parallel ports.
- All serial ports with 5V/12V power output selectable.
- Supports PCI Bus power and systems power supply output.
- Universal PCI compatible with 64/32-bit PCI-X/PCI Bus and 3.3/5V.
- Supports Re-map function for legacy ports under Microsoft Windows 98 O.S..
- IEEE 1284-1994 compliant supports
 - SPP (Standard Parallel Port)
 - EPP (Enhanced Parallel Port)
 - ECP (Enhanced Capability Port)
 - BPP (Bi-direction Parallel Port)
- Built-in ± 2 KV ESD protection for all serial signals.
- Certified by Microsoft WHQL, CE, FCC, RoHS approval.
- Support Microsoft Windows 3x / 9x ME / NT / 2000 / XP / 2003(32/64-bit) / Vista & Linux 2.2x / 2.4x 2.6x.
- Ready for the Intel® / AMD® CPU and 32/64-bit operation system.
- 0°C ~ 60°C operating temperature.

Specification

Picture		
Item	4079AM	4079LM
Port	2 port RS-232, 1 port IEEE 1284	2 port RS-232, 1 port IEEE 1284
BUS	Universal PCI	Universal PCI
ESD Protection	± 2 KV	± 2 KV
Baud Rate	50~115.2Kbps	50~115.2Kbps
PCB Connector	2 x DB9M, 1 x Pin Header	DB44F
Bracket Space	2	1
Dimensions	120 x 78 mm	120 x 78 mm
Bracket	Std. 121 mm	LP. 79.2mm
Accessory		
Application	Commercial Application	

Package Content

- 1 x Multi IO PCI Board
- 2 x 13 Pin Header to DB25F flat cable with bracket (4079AM)
- 1 x DB44F to 2 x DB9M and 1 DB25F cable (4079PM)
- 1 x Driver CD ROM
- 1 x Quick Installation Guide

Order Information

- 4079AM 2 ports RS-232 & 1 port IEEE1284 Parallel PCI Board
- 4079LM 2 ports RS-232 & 1 port IEEE1284 Parallel PCI Low Profile Board

Note: Please find Pin Assignment definition.



4018A 4008A

2 / 1 port IEEE1284 Parallel
PCI Board





Overview

SUNIX PCI parallel communication boards are compatible with the 32/64-bit PCI architecture supporting a 3.3 and 5V Bus. The majority of today's motherboards is not equipped with a parallel port. With SUNIX PCI parallel board, users can add 2/1 parallel ports to their system, allowing them to use parallel devices further. The SUNIX PCI parallel Board is the advanced and high efficient solution for commercial and industrial automation applications.

Features

- Highly reliable SUN1888 IEEE -1284 chipset solution.
- Two or one IEEE1284 Parallel ports.
- Universal PCI compatible with 64/32-bit PCI-X / PCI Bus and 3.3 / 5V.
- IEEE 1284-1994 compliant supports
 - SPP (Standard Parallel Port)
 - EPP (Enhanced Parallel Port)
 - ECP (Enhanced Capability Port)
 - BPP (Bi-direction Parallel Port)
- Certified by Microsoft WHQL, CE, FCC, RoHS approval.
- Support Microsoft Windows 3x / 9x / ME / NT / 2000 / XP / 2003(32/64-bit) / Vista, Linux 2.4x / 2.6x.
- Ready for the Intel® / AMD® CPU and 32/64-bit operation system.
- 0°C ~ 60°C operating temperature.

Specification

Picture		
Item	44018A	4008A
Port	2	1
BUS	Universal PCI	Universal PCI
PCB Connector	DB25F / Pin	DB25F
Bracket Space	2	1
Dimensions	120 x 64 mm	120 x 64 mm
Bracket	Std. 121 mm	Std. 121 mm
Accessory		—
Application	Commercial Application	

Package Content

- 1. 1 x Multi IO PCI Board
- 1 x Pin Header to DB25F Connector Bracket set (4018A)
- 1 x User's Manual and Software CD ROM
- 1 x Quick Installation Guide

Order Information

- 4018A 2 ports Multi IO PCI Board
- 4008A 1 port Multi IO PCI Board

Note: Please find Pin Assignment definition.



4366A 4356A 4337A

8 / 4 / 2 port RS-232 Serial
PCI-104 Board









Overview

SUNIX PCI-104 RS-232 serial communication board combines small size, industrial grade construction and reliability specifications, plus perform the functions most commonly need in embedded application. Each port offer data transfer rate up to 921.6 Kbps with built-in 128-Kbyte FIFO buffer to give you maximum system performance and efficiency. PCI-104 modules use as smart stacking bus design, they avoid the costs and bulk associated with backplanes or card cage. It works with PC / 104 -plus CPU boards that accept the PCI-104 expansion interface, and comes with DB9 or DB25 connection cables are available as options to meet users' varied connection requirements.

Features

- 8 / 4 / 2 independent RS-232 serial ports with communication speeds up to 921.6Kbps.
- High Speed Chipset Sunix Golden IO (4366A)
- High speed SUN1889 16C650 compatible UART controller on-board.
- On-chip hardware auto flow control to guarantee no data loss.
- Built-in ± 2 KV ESD protections for all serial signals.
- Certified by Microsoft WHQL, CE, FCC, RoHS approval.
- Support Microsoft Windows WinCE.NET / 3x / 9x / ME / NT / 2000 / XP / 2003 / Vista, Linux & DOS.
- $0^{\circ}\text{C} \sim 60^{\circ}\text{C}$ operating temperature.

Specification

Picture			
Item	4366A	4356A	4337A
Port	8	4	2
BUS	PCI-104	PCI-104	PCI-104
ESD Protection	$\pm 5\text{KV}$	$\pm 2\text{KV}$	$\pm 2\text{KV}$
PCB Connector	Box Header	Box Header	Box Header
Baud Rate	50~921.6Kbps	50~115.2Kbps	50~115.2Kbps
Dimensions	95.9 x 90 mm	95.9 x 90 mm	95.9 x 90 mm
Accessory			
Application	POS System	Building Automation	Embedded for RackMount system

Package Content

- 1 x Golden IO PCI-104 Board
- 1 x User's Manual and Software CD ROM
- 1 x Quick Installation Guide

Optional Accessories

- 5x2 Pin Header to DB9 Male connection cable, 30cm

Order Information

- 4337A 2 ports Multi IO PCI-104 Board
- 4356A 4 ports Multi IO PCI-104 Board
- 4366A 8 ports Multi IO PCI-104 Board

Note: Please find Pin Assignment definition.



4243I 4233I

4 / 2 port RS-232 Serial
PC / 104 Board



Overview

SUNIX PC / 104 RS-232 Multi-port serial communication board combines small size, industrial grade construction and reliability plus perform the functions most commonly need in embedded application. Each serial port has a built-in 64 byte hardware FIFO, and provides high-performance data transfer rates with SUNIX SUN1699 16C750 standard UART. The I/O address and interrupt of each serial port is configurable. SUNIX PC / 104 modules use as smart stacking bus design to avoid the costs and bulk associated with backplanes or card cage. DB9 or DB25 connection cables are available as options to meet users' varied connection requirements.

Features

- 4 / 2 independent RS-232 serial ports with communication speeds up to 115.2Kbps.
- High speed SUN1699 16C750 compatible UART controller on-board.
- On-chip hardware auto flow control to guarantee no data loss.
- Each serial port with built-in 64 byte hardware FIFO.
- IRQ sharing and I/O address selectable for each serial port by jumper.
- Built-in ± 2 KV ESD protections for all serial signals.
- Certified by Microsoft WHQL, CE, FCC, RoHS approval.
- Support Microsoft Windows WinCE.NET / 3x / 9x / ME / NT / 2000 / XP / 2003 / Vista, Linux & DOS.
- 0°C ~ 60°C operating temperature.

Specification

Picture		
Item	4243I	4233I
Port	4	2
BUS	PC / 104	PC / 104
ESD Protection	± 2 KV	± 2 KV
Baud Rate	50~115.2Kbps	50~115.2Kbps
PCB Connector	Box Header	Box Header
Bracket Space	95.9 x 90 mm	95.2 x 90 mm
Accessory		
Application	Building Automation	Embedded for RackMount system

Package Content

- 1 x Golden IO PC / 104 Board
- 1 x User's Manual and Software CD ROM
- 1 x Quick Installation Guide

Optional Accessories

- 5x2 Pin Header to DB9 Male connection cable, 30cm

Order Information

- 4233I 2 port Multi IO PC / 104 Board with Interrupt Sharing
- 4243I 4 port Multi IO PC / 104 Board with Interrupt Sharing

Note: Please find Pin Assignment definition.

Golden I/O ExpressCard

www.sunix.com.tw



ECS4400
ECS2400
ECS1400

4 / 2 / 1 port RS-232 Serial
Express Card



Overview

Sunix ExpressCard series meet the need of the ExpressCard market where notebooks, desktops, and docking stations could add additional RS-232 serial ports via a single slim-type 34/54mm ExpressCard slot. The ExpressCards are equipped with SUNIX high performance and reliable chipset UL7512EQ. The SUNIX ExpressCard series is the advanced and high efficient solution for commercial and industrial automation applications. Users will benefit from ExpressCard plug-n-play ease of use, which eliminates the need to open the chassis to add new features. SUNIX Serial ExpressCard series support serial peripherals, such as GPS receivers, serial printers/ plotters, barcode scanners, digital cameras, PDAs, Cell Phones and fax/modems.

Features

- 4 / 2 / 1 independent RS-232 serial ports with communication speeds up to 921.6Kbps.
- High reliability SUNIX UL7512EQ 16C750 UART compatible chipset solution.
- Designed to meet PCI Express Base Specification Revision 1.1.
- Full single-lane (or x1) PCI Express throughput.
- Built-in $\pm 15KV$ ESD protection for all serial signals meets IEC1000-4-2 standard.
- Hot-swapping feature allows you to attach/detach RS-232 devices without first powering your computer off.
- Plug-n-Play.
- Certified by Microsoft WHQL, CE, FCC, RoHS approval.
- Support Microsoft Windows 98SE / ME / 2000 / XP / 2003 / Vista & Linux.
- 0°C ~ 60°C operating temperature.

Specification

Picture			
Item	ECS4400	ECS2400	ECS1400
Port	4	2	1
BUS	Express Card, 1x	Express Card, 1x	Express Card, 1x
ESD Protection	$\pm 15KV$	$\pm 15KV$	$\pm 15KV$
PCB Connector	DB44F	DB44F	DB9M
Baud Rate	50 ~ 921.6Kbps	50 ~ 921.6Kbps	50 ~ 921.6Kbps
Dimensions	132 (W) x 58 (D) x 21mm (H)	132 (W) x 58 (D) x 21mm (H)	132 (W) x 58 (D) x 21mm (H)
DB9M Cable	 1-set 40 / 100cm	 1-set 40 / 100cm	—
Application	Commercial application		

Package Content

- 1 x Golden I/O ExpressCard
- 1 x Driver CD ROM
- 1 x DB44 to 4 / 2 ports DB9 / 25 Male Cable, 40cm (ECS4400 / ECS2400)
- 1 x Quick Installation Guide

Order Information

- ECS1400 1 port RS-232 ExpressCard
- ECS2400 2 ports RS-232 ExpressCard
- ECS4400 4 ports RS-232 ExpressCard

Note: Please find Pin Assignment definition.

Multi I/O ExpressCard

www.sunix.com.tw



ECM2925

2 port RS-232 & 1 port
IEEE1284 Parallel
Express Card



Overview

SUNIX ExpressCard series meet the need of the ExpressCard market where notebooks, desktops, and docking stations could add additional RS-232 serial and IEEE1284 parallel ports via a single slim-type 34 / 54mm ExpressCard slot. The ExpressCards are equipped with SUNIX high performance and reliable chipset UL7512EQ. The SUNIX ExpressCard series is the advanced and high efficient solution for commercial and industrial automation applications. Users will benefit from ExpressCard plug-n-play ease of use, which eliminates the need to open the chassis to add new features. SUNIX Serial ExpressCard series support serial peripherals, such as GPS receivers, serial printers / plotters, barcode scanners, digital cameras, PDAs, Cell Phones and fax/modems and parallel devices, like printer, scanner, plotter.

Features

- Two RS-232 serial ports and one IEEE1284 parallel port
- High reliability SUNIX UL7512EQ 16C750 chipset solution.
- Designed to meet PCI Express Base Specification Revision 1.1.
- Full single-lane (or x1) PCI Express throughput.
- Built-in $\pm 15\text{KV}$ ESD protection for all serial signals meets IEC1000-4-2 standard.
- Hot-swapping feature allows you to attach/detach RS-232 devices without first powering your computer off.
- Plug-n-Play.
- Certified by Microsoft WHQL, CE, FCC, RoHS approval.
- Support Microsoft Windows 98SE / ME / 2000 / XP / 2003 / Vista & Linux.
- $0^{\circ}\text{C} \sim 60^{\circ}\text{C}$ operating temperature.

Specification

Picture	
Item	ECM2925
Port	2 port RS-232, 1 port IEEE 1284
BUS	Express Card, 1x
ESD Protection	$\pm 15\text{KV}$
Baud Rate RS-232	50 ~ 921.6Kbps
Connector	1 x DB44F
Speed IEEE 1284	2.7 MB / s
Mode IEEE 1284	SPP / EPP / ECP / BPP
Dimensions	132 (W) x 58 (D) x 21mm (H)
DB9 Cable	 1-set 40 / 100cm
Application	Commercial Application

Package Content

- 1. 1 x Multi IO ExpressCard
- 1 x Driver CD ROM
- 1 x DB44 to 2-port DB9 Male and 1-port DB25 Female cable, 40cm
- 1 x Quick Installation Guide

Note: Please find Pin Assignment definition.

Multi I/O ExpressCard

www.sunix.com.tw



ECP0010 ECP0020

2 / 1 port IEEE1284 Parallel
ExpressCard



Overview

Sunix ExpressCard series meet the need of the ExpressCard market where notebooks, desktops, and docking stations could add additional IEEE1284 parallel ports via a single slim-type 34/54mm ExpressCard slot. The ExpressCards are equipped with SUNIX high performance and reliable chipset UL7512EQ. The SUNIX ExpressCard series is the advanced and high efficient solution for commercial and industrial automation applications. Users will benefit from ExpressCard plug-n-play ease of use, which eliminates the need to open the chassis to add new features. SUNIX Serial ExpressCard series support serial peripherals, such as GPS receivers, serial printers/plotters, barcode scanners, digital cameras, PDAs, Cell Phones and fax/modems.

Features

- Two or one IEEE1284 parallel ports
- High reliability SUNIX UL7512EQ chipset solution.
- Designed to meet PCI Express Base Specification Revision 1.1.
- Support ECP(Enhance Capacity Port) / EPP(Enhance Parallel Port)
- Full single-lane (or x1) PCI Express throughput.
- Hot-swapping feature allows you to attach/detach parallel devices without first powering your computer off.
- Plug-n-Play.
- Certified by Microsoft WHQL, CE, FCC, RoHS approval.
- Support Microsoft Windows 98SE / ME / 2000 / XP / 2003 / Vista & Linux.
- 0°C ~ 60°C operating temperature.

Specification

Picture		
Item	<i>ECP0020</i>	<i>ECP0010</i>
Port	2	1
BUS	Express Card, 1x	Express Card, 1x
Protection	2KV ESD	2KV ESD
Speed	2.7 MB / s	2.7 MB / s
Mode	SPP / EPP / ECP / BPP	SPP / EPP / ECP / BPP
Connector	DB44F	DB25F
Dimensions	132 (W) x 58 (D) x 21mm (H)	132 (W) x 58 (D) x 21mm (H)
Accessory		—
Application	Commercial application	

Package Content

- 1 x Multi IO ExpressCard
- 1 x Driver CD ROM
- 1 x DB44 to 2 ports DB25 Female Cable, 40cm
- 1 x Quick Installation Guide

Order Information

- ECP0010 1 port Multi IO CardBus
- ECP0020 2 port Multi IO CardBus

Note: Please find Pin Assignment definition.



CBS4009 CBS2009 CBS1009

4 / 2 / 1 / port RS-232 Serial CardBus



Overview

SUNIX card bus series are RS-232 PCMCIA Type II 32-bit CardBuss, widely used in varieties of portable systems. Each of the serial ports offers data transfer rates up to 230.4 Kbps with built-in 32-byte FIFO buffer to give you maximum system performance and efficiency. Equipped with Sunix high performance and reliable single chipset UART, UL7512EQ, this CardBuss also provide full modem control signals to ensure compatibility with all kind of RS-232 peripherals. These CardBuss are the advanced and high efficient solution for commercial and industrial automation applications and ideal as well for home or office use. These Card Bus Cards are your best solution to utilize the peripheral with serial port in an easy-to-use environment such as plug-n-play and hot-swapping function.

Features

- 4 / 2 / 1 independent RS-232 serial ports with communication speeds up to 230.4Kbps.
- High reliability SUNIX UL7512EQ 16C750 chipset solution 16C650 UART compatible.
- Compliant with PCMCIA Type II Card Bus specification.
- Built-in $\pm 15KV$ ESD protection for all serial signals meets IEC1000-4-2 standard.
- Hot-swapping feature allows you to attach/detach RS-232 devices without first powering your computer off.
- Plug-n-Play.
- Certified by Microsoft WHQL, CE, FCC, RoHS approval.
- Support Microsoft Windows 98SE / ME / 2000 / XP / 2003 / Vista & Linux.
- 0°C ~ 60°C operating temperature.

Specification

Picture			
Item	CBS4009	CBS2009	CBS1009
Port	4	2	1
BUS	PCMCIA Type II, 332	bit Card Bus	PCMCIA Type II, 332
ESD Protection	$\pm 15KV$	$\pm 15KV$	$\pm 15KV$
PCB Connector	DB44F	DB9M	DB9M
Baud Rate	50 ~ 921.6Kbps	50 ~ 921.6Kbps	50 ~ 921.6Kbps
Dimensions	132 (W) x 58 (D) x 21mm (H)	132 (W) x 58 (D) x 21mm (H)	132 (W) x 58 (D) x 21mm (H)
DB9M Cable	 1-set 40 / 100cm	 1-set 40 / 100cm	—
Application	Commercial application		

Package Content

- 1 x Golden IO CardBus
- 1 x User's Manual and Software CD ROM
- 1 x DB44F to 4/2 x DB9M cable (CBS4009 / CBS2009)
- 1 x Quick Installation Guide

Order Information

- CBS1009 1 port RS-232 CardBus
- CBS2009 2 ports RS-232 CardBus
- CBS4009 4 ports RS-232 CardBus

Note: Please find Pin Assignment definition.



CBM2925 CBM1925

2 / 1 port RS-232 & 1 port
IEEE1284 Parallel CardBus



Overview

SUNIX card bus series are RS-232 PCMCIA Type II 32-bit CardBus, widely used in varieties of portable systems. Each of the serial ports offers data transfer rates up to 921.6 Kbps with built-in 32-byte FIFO buffer to give you maximum system performance and efficiency. Further the integrated IEEE1284 parallel port a data transfer rate up to 2.7MB/s. Equipped with Sunix high performance and reliable single chipset UART, UL7512EQ, this CardBus also provide full modem control signals to ensure compatibility with all kind of RS-232 peripherals. It supports SPP, EPP and ECP mode to ensure highest compatibility to modern parallel devices..These CardBus are the advanced and high efficient solution for commercial and industrial automation applications and ideal as well for home or office use.These Card Bus Cards are your best solution to utilize the peripheral with serial port in an easy-to-use environment such as plug-n-play and hot-swapping function.

Features

- Two RS-232 serial ports and one IEEE1284 parallel port
- High reliability SUNIX UL7512EQ 16C750 chipset solution16C650 UART compatible.
- Compliant with PCMCIA Type II Card Bus specification.
- Built-in $\pm 15KV$ ESD protection for all serial signals meets IEC1000-4-2 standard.
- Hot-swapping feature allows you to attach/detach RS-232 devices without first powering your computer off.
- Plug-n-Play.
- Certified by Microsoft WHQL, CE, FCC, RoHS approval.
- Support Microsoft Windows 98SE / ME / 2000 / XP / 2003 / Vista & Linux.
- $0^{\circ}C \sim 60^{\circ}C$ operating temperature.

Specification

Picture		
Item	CBM2925	CBM1925
Controller	SUNIX UL7512EQ	SUNIX UL7512EQ
Port	2 port RS-232 & 1 port IEEE1284 Parallel	1 port RS-232 & 1 port IEEE1284 Parallel
BUS	PCMCIA Type II, 32-bit Card Bus	PCMCIA Type II, 32-bit Card Bus
Connector	DB44F	DB44F
Protection	$\pm 15KV$ ESD	$\pm 15KV$ ESD
Baud Rate	50bps ~ 921.6 Kbps	50bps ~ 921.6 Kbps
Dimensions	132 (W) x 58 (D) x 21mm (H)	132 (W) x 58 (D) x 21mm (H)
Cable	 1-set 40 / 100cm	 DB25 Female 40 cm

Package Content

- 1 x Multi IO CardBus
- 1 x Driver CD ROM
- 1 x DB44 to 2-port DB9 Male (CBM2925)
- 1 x DB25 to 2 ports DB9 port DB25 Female cable, 40cm (CBM1925)
- 1 x Quick Installation Guide

Order Information

- CBM2925 2 port RS-232 & 1 port IEEE1284 Parallel CardBus
- CBM1925 1 port RS-232 & 1 port IEEE1284 Parallel CardBus

Note: Please find Pin Assignment definition.

Multi I/O CardBus

www.sunix.com.tw



CBP0020M CBP0010M

2 / 1 port IEEE1284
Parallel CardBus



Overview

SUNIX card bus series are RS-232 PCMCIA Type II 32-bit CardBuss, widely used in varieties of portable systems. Each parallel port offers data transfer rate up to 2.7 Mbps with built-in SPP / EPP / ECP / BPP operation mode to give you maximum system performance and efficiency. These CardBus are the advanced and high efficient solution for commercial and industrial automation applications and ideal as well for home or office use. These Card Bus Cards are your best solution to utilize the peripheral with serial port in an easy-to-use environment such as plug-n-play and hot-swapping function.

Features

- 2 / 1 IEEE 1284 Parallel ports.
- High performance SUN1888 Parallel chipset solution.
- Compliant with PCMCIA Type II Card Bus specification.
- IEEE 1284-1994 compliant supports
 - SPP (Standard Parallel Port)
 - EPP (Enhanced Parallel Port)
 - ECP (Enhanced Capability Port)
 - BPP (Bi-direction Parallel Port)
- Supports Hot-Swap and Plug-n-Play.
- Plug-n-Play.
- Certified by Microsoft WHQL, CE, FCC, RoHS approval.
- Support Microsoft Windows 98SE / ME / 2000 / XP / 2003 / Vista & Linux.
- 0°C ~ 60°C operating temperature.

Specification

Picture		
Item	CBP0020M	CBP0010M
Controller	SUNIX UL7512EQ	SUNIX UL7512EQ
Port	2 ports Parallel	1 port Parallel
BUS	PCMCIA Type II, 32-bit Card Bus	PCMCIA Type II, 32-bit Card Bus
Connector	DB44F	DB25F
Protection	±15KV ESD	±15KV ESD
Baud Rate	50bps ~ 921.6 Kbps	50bps ~ 921.6 Kbps
Dimensions	132 (W) x 58 (D) x 21mm (H)	132 (W) x 58 (D) x 21mm (H)
Cable	 DB25 Female 40 cm	—

Package Content

- 1 x Golden IO CardBus
- 1 x User's Manual and Software CD ROM
- 1 x DB44F to 2 x DB25F cable (CBP0020M)
- 1 x Quick Installation Guide

Order information

- CBP0010M 1 port Parallel CardBus
- CBP0020M 2 ports Parallel CardBus

Note: Please find Pin Assignment definition.



4064I
4046I
4043A
4033A
4023A

8 / 4 / 2 / 1 port RS-232 Serial
ISA Board



Overview

SUNIX Golden I/O ISA serial communication board series is equipped with Sunix high performance and reliable SUN1699 chipset. The card series provides RS-232 serial port connection with DB9 or DB25 interface. SUNIX provides driver support for Windows and Linux OS, enabling it to be installed in any PC system equipped with ISA slot. SUNIX provides an economic and reliable solution for extensive use in the commercial communication and industrial automation applications, such as POS registers, lottery machines, kiosk machines, and other serial device control applications.

Features

- 8 / 4 / 2 RS-232 serial ports.
- High speed SUN1699 16C750 compatible UART chipset solution.
- On-chip hardware auto flow control to guarantee no data loss
- Each serial port has built-in 64 byte hardware FIFO
- IRQ sharing and I/O address selection for each serial port by jumper.
- Built-in ± 2 KV ESD protections for all serial signals.
- Support Microsoft Windows WinCE.NET / 3.x / 9x Me / NT / 2000 / XP / 2003 / Vista, Linux 2.2x / 2.4x & DOS.
- 0°C ~ 60°C operating temperature.

Specification

Picture					
Item	4064I	4046I	4043A	4033A	4023A
Port	8	4	4	2	1
BUS	16-bit ISA	16-bit ISA	16-bit ISA	16-bit ISA	16-bit ISA
IO Location	12 Loc.	12 Loc.	12 Loc.	12 Loc.	12 Loc.
IRQ	Sharing	Sharing	9 Loc.	9 Loc.	9 Loc.
Protection	2KV ESD	2KV ESD	2KV ESD	2KV ESD	2KV ESD
Baud Rate	115.2Kbps	115.2Kbps	115.2Kbps	115.2Kbps	115.2Kbps
PCB Connector	DB62F	DB37F	DB37F	DB9M	DB9M
Bracket Space	1	1	1	1	1
Dimensions	170 x 95 mm	160 x 94 mm	175 x 83 mm	132 x 71 mm	133 x 57 mm
Bracket	Std. 121 mm	Std. 121 mm	Std. 121 mm	Std. 121 mm	Std. 121 mm
DB9M Cable	 1-set 40/100cm	 1-set 40/100cm	 1-set 40/100cm	—	—
DB25M Cable	 1-set 40/100cm	 1-set 40/100cm	 1-set 40/100cm	—	—

Package Content

- 1 x Golden IO CardBus
- 1 x User's Manual and Software CD ROM
- 1 x DB44F to 2 x DB25F cable (CBP0020M)
- 1 x Quick Installation Guide

Order information

- CBP0010M 1 port Parallel CardBus
- CBP0020M 2 port Parallel CardBus

Note: Please find Pin Assignment definition.



BTS1009C

Bluetooth to RS-232 Adapter



Overview

SUNIX Bluetooth to IO (BTIO) series is designed to offer the perfect wireless solution for industrial and commercial applications. The BTS1009 complies with Bluetooth Class 1 standard version 2.0+EDR, which allows a data communication distance up to 100M and a transfer rate up to 460.8 Kbps.

SUNIX BTS1009 is made for a variety of applications, due to its outstanding features, like its high sensitivity and the low power consumption. The ideal solution for commercial applications, like POS, KIOSK and wireless surveillance systems.

Features

- **Bluetooth Class 1 (20 dbm) version 2.0+EDR standard compliant.**
- **Operating distance of up to 100 meters in free space.**
- **Supports data transfer rate up to 460.8 Kbps.**
- **Intelligent power distribution technology. Supports the following modes:**
 - The power for BTS1009 will be provided by a power supply connected to BTS1009 (5V DC only).
 - The power for BTS1009 and a connected serial device will be provided by a power supply connected to BTS1009 (5V DC only).
 - The power for BTS1009 will be provided by the connected serial device through PIN 9 of the serial port (5V DC only).
- **User-friendly Windows configuration software.**
- **Support for Microsoft Windows 98SE / Me / 2000 / XP / 2003 / Vista & Linux.**
- **0°C ~ 60°C operating temperature.**

Specification

Picture	
Item	BTS1009C
Type	Bluetooth to RS-232 Adapter
Serial Communication	
Port	1
Port Type	DB9 Male
Throughput	Maximum up to 460.8kbps
Baud Rate	1200bps ~ 460.8 Kbps
Protection	2KV ESD for all signal
Bluetooth Communication	
Standard	Bluetooth V2.0 +EDR
RF Power	Class 1
Frequency	2.4~2.4835GHz inlicensed ISM band
Modulation	GFSK, 1Mbps, 0.5BT Gaussian
Distance	Up to 100m in free space
Power input	5V DC
Power Consumption	Tx Typical: 115mA Rx Tyoical: 75mA Standby Mode:15mA
Dimensions	109 x 34 x 18 mm
Application	Commercial Application

Package Content

- Bluetooth to RS-232 Adapter
- User's Manual and Software CD ROM
- Quick Installation Guide
- Power Adapter 5V / 1A

Order Information

- BTS1009C Bluetooth to RS-232 Adapter
- Power Adapter (Optinal)

Note: Please find Pin Assignment definition.



UTS4009P

4 ports USB to RS-232 Serial Hub



Overview

SUNIX ComHub series is designed to easily connect your current serial devices through PC's USB (Universal Serial Bus) port without powering down your system or further configuration. SUNIX ComHub seamlessly integrates the serial ports into the operation system, so users can easily benefit from it. The ComHub is the solution to carry out simple and cost effective data accessibility.

Features

- 4 RS-232 serial ports.
- Each serial port provides transmission rate up to 115.2Kbps.
- 15KV ESD Surge protection for all serial signals.
- 1 USB 1.1 Full Speed (12Mbps), USB 2.0 compatible port.
- Supports Universal Serial Bus Plug-n-Play and Hot-Swapping feature.
- No further configuration required.
- Supports both USB bus power and external power.
- Support Windows CE / 98 / ME / 2000 / XP / 2003 & Linux.
- 0°C ~ 60°C operating temperature.

Specification

Picture		
Item	UTS4009P	
Controller	Prolific 2303HX 16C550 Compatible UART	
Port	4	
Port type	DB9 Male	
BUS	Universal Serial Bus (USB)	
ESD Protection	±2KV ESD for all signal	
Power input	USB Bus-power 5VDC External Power, DC Jack type	
Power Consumption	< 0.7W = 5V x 130mA	
Baud Rate	75 ~ 115.2 Kbps	
LED	Red for TxD, Green for RxD, Orange for Full-Duplex	
Dimensions	180 x 70 x 26 mm	

Package Content

- USB to RS-232 Serial Hub
- USB Cable
- User's Manual and CD ROM Driver
- Quick Installation Guide

Order Information

- UTS4009P 4 port USB to RS-232 Serial Hub

Note: Please find Pin Assignment definition.



UTS2009 UTS1009 UTS1009D

2 / 1 ports USB to
RS-232 Serial Hub






Overview

SUNIX ComHub UTS series transform your Universal Serial Bus (USB) port into asynchronous RS-232 serial ports to communicate with serial devices. The adapter is compatible with both USB 2.0 and 1.1 specifications. The serial ports provide a data transfer rate up to 115.2Kbps. SUNIX ComHub UTS seamlessly integrates the serial ports into the operation system, so users can easily benefit from it. The ComHub UTS is the solution to carry out simple and cost effective data accessibility.

Features

- 2 / 1 RS-232 serial ports.
- Each serial port provides transmission rate up to 115.2Kbps.
- 15KV ESD Surge protection for all serial signals.
- 1 USB 1.1 Full Speed (12Mbps), USB 2.0 compatible port.
- Supports Universal Serial Bus Plug-n-Play and Hot-Swapping feature.
- No further configuration required.
- Supports both USB bus power and external power.
- Compact Size and low power consumption.
- Support Windows CE / 98 / ME / 2000 / XP / 2003 & Linux.
- 0°C ~ 60°C operating temperature.

Specification

Picture			
Item	UTS2009	UTS1009	UTS1009D
Controller	Prolific 2303HX 16C550 Compatible UART	Prolific 2303HX 16C550 Compatible UART	Prolific 2303HX 16C550 Compatible UART
Port	2	1	1
BUS	Universal Serial Bus (USB)	Universal Serial Bus (USB)	Universal Serial Bus (USB)
ESD Protection	±2KV	±2KV	±2KV
Power input	USB Bus-power	USB Bus-power	USB Bus-power
Power Consumption	< 1.0W = 5V x 200mA	< 0.8W = 5V x 150mA	< 0.8W = 5V x 150mA
Baud Rate	75 ~ 115.2 Kbps	75 ~ 115.2 Kbps	75 ~ 115.2 Kbps
Dimensions	75 x 40 x 22 mm	75 x 40 x 22 mm	51 x 33 x 15 mm

Package Content

- USB to RS-232 Serial Hub
- Quick Installation Guide
- User's Manual and CD ROM Driver

Order Information

- UTS2009 2 port USB to RS-232 Serial Hub with DB9M connector
- UTS1009 1 port USB to RS-232 Serial Hub with DB9M connector
- UTS1009D 1port USB to RS-232 Serial Adapter Molding Type with DB9M connector

Note: Please find Pin Assignment definition.



UTM1925

USB to RS-232 and
Parallel Multi-I/O Hub



Overview

SUNIX UTM1925 transforms your Universal Serial Bus (USB) port into asynchronous RS-232 serial interface and IEEE1284 parallel SPP mode LPT ports to communicate with serial devices and parallel printers. This adapter is compatible with both USB 2.0 and 1.1 specifications. The USB Full Speed connection offers a data transfer rate up to 12Mbps. SUNIX UTM1925 is the solution to carry out simple and cost effective data accessibility.

Features

- 1 RS-232 serial port, 1 IEEE 1284 port.
- The serial port provides transmission rate up to 115.2Kbps.
- The IEEE 1284 parallel port supports SPP mode at a data transfer rate of 2.7MB/sec.
- 1 USB 1.1 Full Speed (12Mbps), USB 2.0 compatible port.
- Supports Universal Serial Bus Plug-n-Play and Hot-Swapping feature.
- No further configuration required.
- Supports both USB bus power and external power.
- Compact Size and low power consumption.
- Support Windows 98 / ME / 2000 / XP / 2003 / Vista & Linux.
- 0°C ~ 60°C operating temperature.

Specification

Picture	
Item	UTM1925
Controller	MosChip MCS7715 16C550 Compatible UART
Port	1
Port type	1 x DB9 Male, 1 x DB25 Female
BUS	Universal Serial Bus (USB)
ESD Protection	±2KV ESD for all signal
Power input	USB Bus-power
Power Consumption	< 1W = 5V x 200mA
Baud Rate	75 ~ 115.2 Kbps
Dimensions	180 x 70 x 26 mm

Package Content

- USB to RS-232 and Parallel Multi-I/O Hub
- Quick Installation Guide
- User's Manual and CD ROM Driver

Order Information

- UTM1925 USB to RS-232 and Parallel Multi-I/O Hub

Note: Please find Pin Assignment definition.



UTP1025

USB to Parallel Adapter




Overview

SUNIX UTP1025 enables your laptop or workstation to use IEEE1284 SPP mode parallel peripherals, such as printer or scanner. This adapter is compatible with both USB 2.0 and 1.1 specifications. The USB Full Speed connection offers a data transfer rate up to 12Mbps.

Features

- 1 IEEE 1284 port.
- The IEEE 1284 parallel port supports SPP mode at a data transfer rate of 2.7MB/sec.
- 1 USB 1.1 Full Speed (12Mbps), USB 2.0 compatible port.
- Supports Universal Serial Bus Plug-n-Play and Hot-Swapping feature.
- No further configuration required.
- Supports both USB bus power and external power.
- Compact Size and low power consumption.
- Support Windows 98 / ME / 2000 / XP / 2003 / Vista & Linux.
- 0°C ~ 60°C operating temperature.

Specification

Picture	
Item	UTP1025
Controller	Prolific PL2305
Port	1
Port type	DB25 Female
BUS	Universal Serial Bus (USB)
Power input	USB Bus-power
Power Consumption	< 1W = 5V x 200mA
Throughput	Maximum up to 2.7MBps
Dimensions	180 x 70 x 26 mm

Package Content

- USB to Parallel Adapter
- Quick Installation Guide
- User's Manual and CD ROM Driver

Order Information

- UTP1025 USB to Parallel Adapter

Note: Please find Pin Assignment definition.



High Speed I/O

- SER1640A 16 ports RS-232 PCI Express Board
- SER8400A 8 ports RS-232 PCI Express Board
- SER4400A 4 ports RS-232 PCI Express Board
- SER4400AL 4 ports RS-232 PCI Express Low Profile Board
- SER1600A 16 ports RS-232 PCI Board
- SER8000A 8 ports RS-232 PCI Board
- SER4000A 4 ports RS-232 PCI Board
- SER400AL 4 ports RS-232 PCI Low Profile Board
- 4036A3V 2 ports RS-232 PCI Board
- 4037A 2 ports RS-232 PCI Low Profile Board
- 4037AL 2 ports RS-232 PCI Board
- 4037D 2 ports RS-232 PCI Board
- 4037U 2 ports RS-232 PCI Embedded Board
- S4000P 4 ports Power Selectable RS-232 PCI Board
- 4000PL 4 ports Power Selectable RS-232 PCI Express Low Profile Board

Golden I/O

- 4466A 8 ports RS-232 PCI Express Board
- 4456A 4 ports RS-232 PCI Express Board
- 4456AL 4 ports RS-232 PCI Express Low Profile Board
- 4437A 2 ports RS-232 PCI Express Board
- 4418A 2 ports IEEE-1284 Parallel PCI Express Board
- 4408A 1 port IEEE-1284 Parallel PCI Express Board
- 4066R 8 ports RS-232 PCI Board
- 4066J 8 ports RS-232 PCI Board
- 4066U 8 ports RS-232 PCI Embedded Board
- 4056A 2 ports RS-232 PCI Board
- 4056AL 2 ports RS-232 PCI Low Profile Board
- 4056D 2 ports RS-232 PCI Board
- 4056U 2 ports RS-232 PCI Embedded Board
- 4027A 1 port RS-232 PCI Board
- 4027AL 1 port RS-232 PCI Low Profile Board
- 4027D 1 port RS-232 PCI Board
- 4027DL 1 port RS-232 PCI Board Low Profile Board

- 4337A 2 ports Multi IO PCI-104 Board
- 4356A 4 ports Multi IO PCI-104 Board
- 4366A 8 ports Multi IO PCI-104 Board
- 4233I 2 port Multi IO PC / 104 Board with Interrupt Sharing
- 4243I 4 port Multi IO PC / 104 Board with Interrupt Sharing

Power I/O

- 4400P 4 ports Power Selectable RS-232 PCI Express Board
- 4400PL 4 ports Power Selectable RS-232 PCI Express Low Profile Board
- 4456PM 4 ports Power Selectable RS-232 PCI Express Board
- 4456LL 4 ports Power Selectable RS-232 PCI Express Low Profile Board
- 4056P 4 ports RS-232 Power Selectable PCI Board
- 4056PL 4 ports RS-232 Power Selectable PCI Low Profile Board
- 4037P 2 ports RS-232 Power Selectable PCI Board
- 4037PL 2 ports RS-232 Power Selectable PCI Low Profile Board
- 4027P 1 port RS-232 Power Selectable PCI Board
- 4027PL 1 port RS-232 Power Selectable PCI Low Profile Board

Multi I/O

- 4479AM 2 port RS-232 & 1 port IEEE1284 Parallel PCI Express Board
- 4079AM 2 ports RS-232 & 1 port IEEE1284 Parallel PCI Board
- 4079LM 2 ports RS-232 & 1 port IEEE1284 Parallel PCI Low Profile Board
- 4018A 2 ports Multi IO PCI Board
- 4008A 1 port Multi IO PCI Board

Golen I/O ExpressCard

- ECS1400 1 port RS-232 ExpressCard
- ECS2400 2 port RS-232 ExpressCard
- ECS4400 4 port RS-232 ExpressCard

Multi I/O ExpressCard

- ECM2925 2 port RS-232 & 1 port IEEE1284 Parallel Express Card

Order Information

- CBP0010 1 port Multi IO CardBus
- CBP0020 2 port Multi IO CardBus

Golden I/O CardBus

- CBS1009 1 port RS-232 CardBus
- CBS2009 2 port RS-232 CardBus
- CBS4009 4 port RS-232 CardBus

Multi I/O CardBus

- CBM2925 2 port RS-232 & 1 port IEEE1284 Parallel CardBus
- CBM1925 1 port RS-232 & 1 port IEEE1284 Parallel CardBus
- CBP0010M 1 port Parallel CardBus
- CBP0020M 2 port Parallel CardBus

BTIO

- BTS1009C Bluetooth to RS-232 Adapter

ComHub

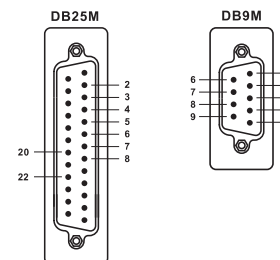
- UTS4009P 4 port USB to RS-232 Serial Hub
- UTS2009 2 port USB to RS-232 Serial Hub with DB9M connector
- UTS1009 1 port USB to RS-232 Serial Hub with DB9M connector
- UTS1009D 1port USB to RS-232 Serial Adapter Molding Type with DB9M connector
- UTS2009 2 port USB to RS-232 Serial Hub with DB9M connector
- UTS1009 1 port USB to RS-232 Serial Hub with DB9M connector
- UTS1009D 1port USB to RS-232 Serial Adapter Molding Type with DB9M connector
- UTM1925 USB to RS-232 and Parallel Multi-I/O Hub
- UTP1025 USB to Parallel Adapter

Pin Assignment

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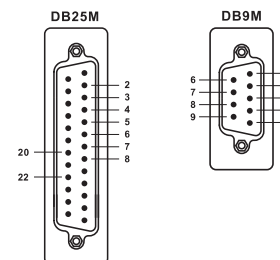


1. Standard RS-232



PIN	DB9M	DB25M
DCD	1	8
RxD	2	3
TxD	3	2
DTR	4	20
GND	5	7
DSR	6	6
RTS	7	4
CTS	8	5
RI	9	22

2. RS-232 with power output



PIN	DB9M	DB25M
DCD	1	8
RxD	2	3
TxD	3	2
DTR	4	20
GND	5	7
DSR	6	6
RTS	7	4
CTS	8	5
RI / 5V / 12V	9	22

3. Parallel

