Technology meets daily life

科技成就生活之美 II

科技
成就生活之美 II
Technology
meets daily life II

商 务 Commercial
通 讯 & 控 制
Communication & Control

SUNIX   www.sunix.com.cn

科技成就生活之美
Technology meets daily life Ⅱ

Preface - About this book

SUNIX Co., Ltd. was established in 1986, focusing on the development and innovation of serial communication technology. We have always insisted on making the customer's needs and problems our problem, and we are dedicated on providing the best solutions to our customers. Because of this, over the past 20 years, we have accumulated a wealth of industry experience and completed numerous success stories. In 2008, instead of using the traditional catalog method applied by most companies, we initiated a groundbreaking way of introducing the communication industry to the general public by issuing the book, "Technology for Life." Through interesting storytelling, the book was well received and allowed readers that were originally unfamiliar with the communication industry to easily learn about the industry. It also allowed those that are already in the communication industry to have a more comprehensive understanding of the communication industry and market. As a result, our new book, "Technology for Life II," was born.

"Technology for Life II" has added in new chapters and collected numerous application examples. Once again, through interesting stories and examples, we show how closely communication technology is related to the daily living of our families, as well as the lives of members of the community, young people, women, senior citizens, and even state government agencies. Through the stories in the two chapters, we hope to share the use of communication technology and how it has helped our lives become more safe and convenient.

序-关于此书

三泰科技成立于1986年，专注于串口通信技术的发展与创新，始终坚持把客户的需求与问题，当作是三泰的问题，坚持提供给客户最好的决解方案，正因如此20多年来我们累积丰富的产业经验，完成无数的成功案例，2008年我们首次突破一般公司传统目录介绍方式，以生动有趣说故事方式，发行了「科技成就生活之美」一书，受到广大的客户青睐，让原来不认识通信产业的伙伴，无负担地学习认识；让原来就身在通信产业的伙伴，更加全面的认识通信产业领域市场，也因为如此，让我们酝酿「科技成就生活之美Ⅱ」一书的诞生。

「科技成就生活之美Ⅱ」加入全新篇章，集结无数的运用案例，再次打破生硬的介绍方式，由最小社会组成单位一个家庭的日常生活，如何与通信运用息息相关? 延伸到社会上的成员，年轻人、妇女、银发族到国家政府机关人士他们有如何每日的生活与通信密不可分? 期待透过两个篇章的故事，分享通信科技运用为人们创造便利与安全的美好生活。

目录 Contents

家庭篇
Family

米勒一家与便利的通信系统
The Miller family and convenient communication systems

家庭篇 – 米勒一家与便利的通信系统

Family **The Miller family and convenient communication systems**

今天对于罗勃先生一家，真是重要的一天，罗勃先生和太太爱蜜莉结婚10周年了，趁着早餐时间他们和女儿露西开心的讨论着今天晚上要如何庆祝！？

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.

Commercial Communication

吃完早餐，罗勃开了车先到家附近的加油站加油，以应付今天繁忙的行程，他自己拿着加油枪加油，一边看着油表跑着。

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.
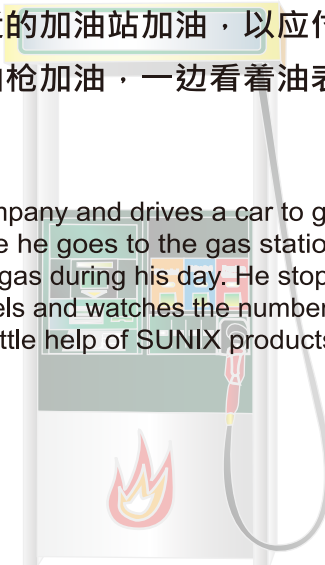
应用图示 Application Diagram

读卡器
Card Reader

LED显示器
LED Display

发票打印机
Invoice Printer

加油枪
Gas Pump

多串口卡
Serial Card
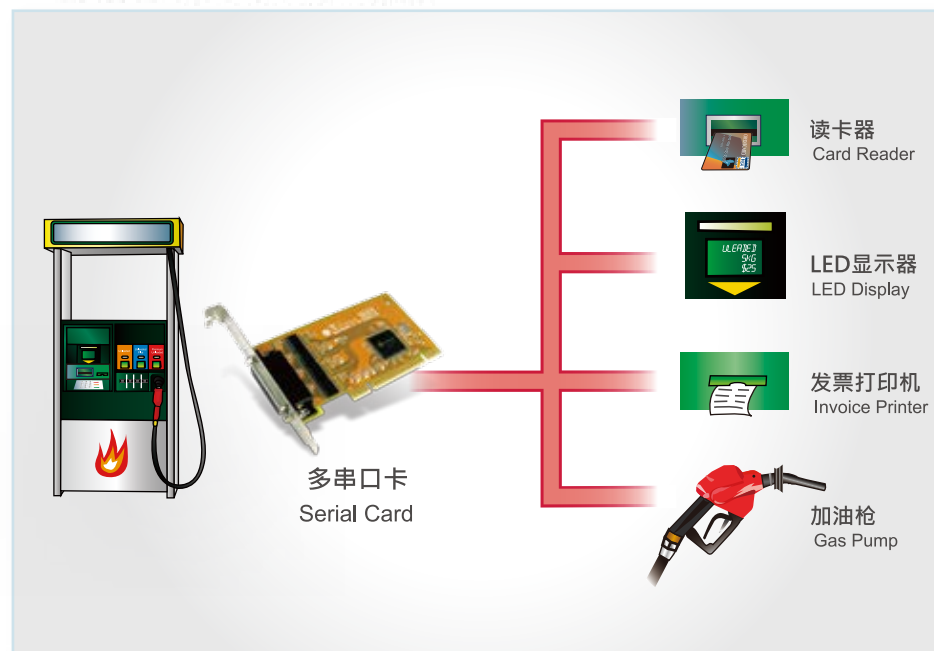
加满了油，罗勃开上高速道路前往公司，罗勃很关心路况，他看了一路上的告示牌清楚的显示：路况良好，请勿超速驾驶，让他安心了许多，并把车速控制在限速以内，快速的通过了收费站。

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.

应用图示 Application Diagram

管理中心
Management Center

多串口卡
Serial Card

Moden

多串口卡
Serial Card
控制器
Controller
提示灯
Light

多串口卡
Serial Card
控制器
Controller
CMS
(changeable message sign)

多串口卡
Serial Card
控制器
Controller
测速器
Speed Detector
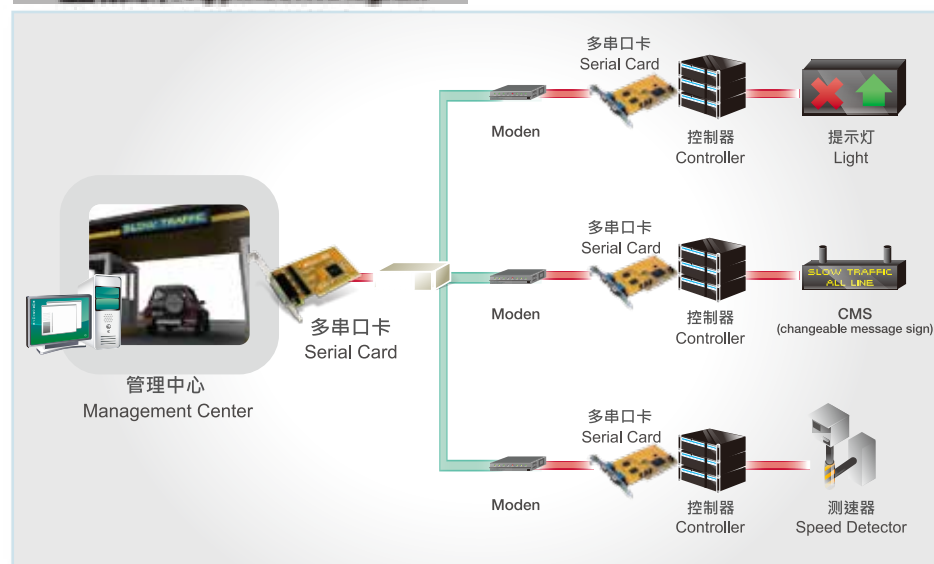
下了高速道路在快到公司的巷口，罗勃看到交通号志变成了红灯，他很快的停了下来，因为遵守交通号志可以确保他行车的安全。

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.

应用图示 Application Diagram

管理中心
Management Center

多串口卡
Serial Card

FTS6011
光纤转换器
Fiber Converter

FTS6011
光纤转换器
Fiber Converter

FTS6011

SLOW TRAFFIC ALL LINE
CMS
changeable message sign

交通信号灯
Traffic Light

VD
Vehicle Detector
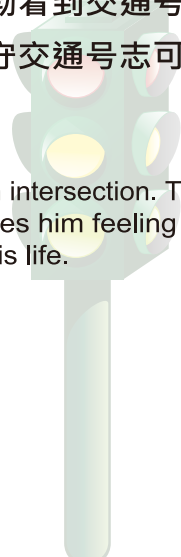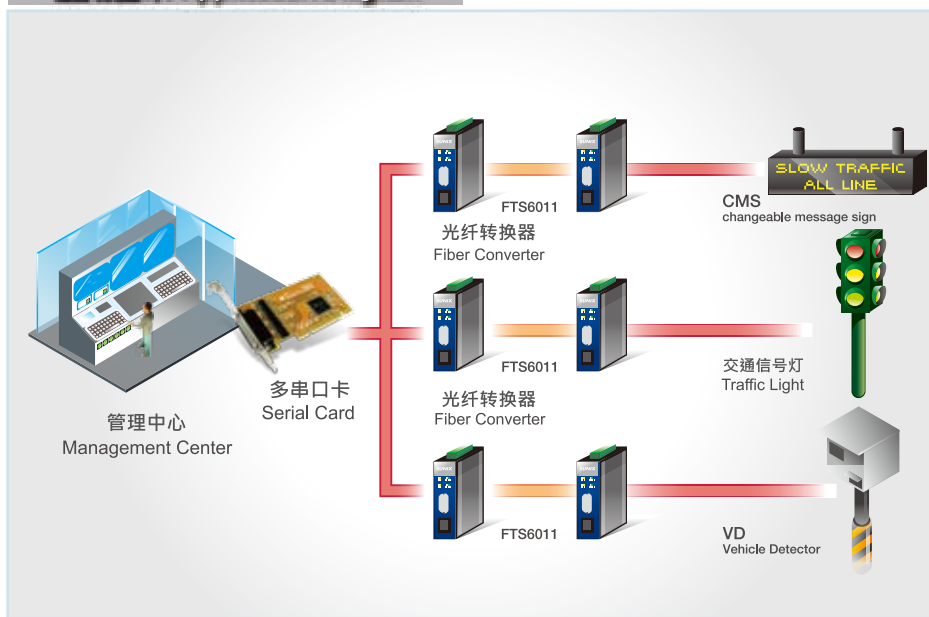
Commercial Communication

接下来，罗勃开心的抵达公司附近的停车场，按下取票钮后，匣门很快的打开，取了停车票卡，罗勃快速的将车子停好。

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.

应用图示 Application Diagram

管理中心
Management Center

多串口卡
Serial Card

投币控制
Coin Validator
Control

LED显示器
LED Display

闸门控制
Gate Control

按钮
Button

出票机
Ticket

感应器
Sensor

Modern

Rock Modern

Rs-232 Module

Modern

Rs-232 Module

门禁
Parking Gate

门禁
Parking Gate

Exit

Entrance
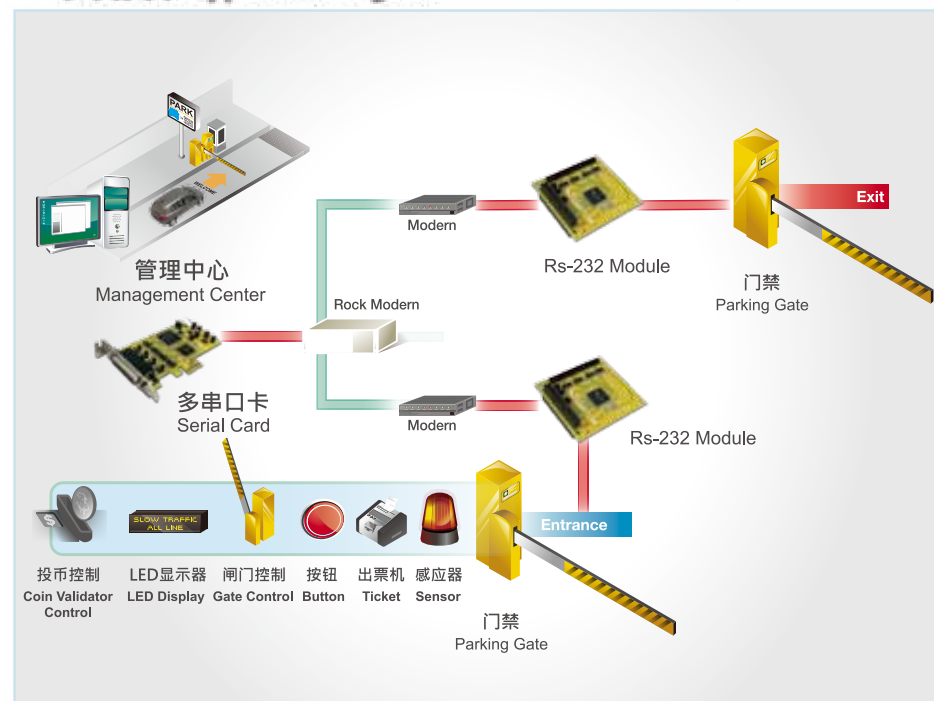
自动报纸贩卖机

而在公司担任业务经理的罗勃，习惯在进办公室前先到报纸贩卖机投币购买当日的商业报纸，了解全球市场的最新讯息及新闻。

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.

应用图示 Application Diagram

读卡器
Card Reader

LED显示器
LED Display

小键盘
Keyboard

投币控制
Coin Validator

机器手臂
Crane-Claw

多串口卡
Serial Card
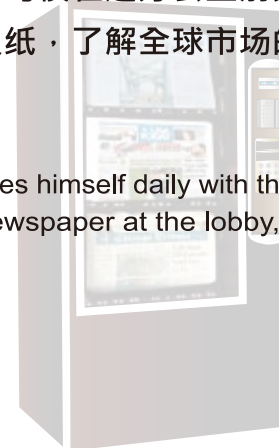
门禁系统
Door Entry System

阅读完今天的全球经济新闻，罗勃充满自信的准备接受一天工作的挑战，他穿上双排扣西装外套，拿出了公司的识别证，在门禁系统感应了一下，开始了他专业经理人的一天。

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.

应用图示 Application Diagram

读卡器 Card Reader
门禁系统
Door Control System

多串口卡
Serial Card

读卡器 Card Reader
考勤系统
Attendance System

POS 系统
POS System

罗勃出门后，爱蜜莉也将露西送上前往学校的公交车，然后出门到便利商店缴付上个月的电费，店员很快的用条形码机扫了账单上的条形码，并向爱蜜莉拿了卡，用POS机很快的结完帐。

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.

应用图示 Application Diagram

管理中心
Management Center

柜台1
Store

多串口卡
Serial Card

LED显示器	打印机	条形码扫描仪	现金收取机	票据打印机	读卡器
LED Display	Printer	Barcode Reader	Cash Register	Tag Printer	Card Reader

地铁售票及网关控制

MRT-pass-gate Ticket Collection & Billboard

在便利商店缴完了电费，爱蜜莉准备搭乘捷运到银行，她要去汇这学期露西的学费，在捷运售票机投币顺利买了票，在过匣门前将票卡在感应区感应了一下，爱蜜莉觉得大众捷运真的很方便。

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.

应用图示 Application Diagram

LED显示器 LED Display

小键盘 Keypad

出票口 Ticket Dispenser

投币控制 Coin Validator Control

错误信息提示 Warning LED Information

硬币兑换器 Coin Exchange

多串口卡 Serial Card

售票机 Ticket Collection

Passing Gate

读卡器 Card Reader

插票口 Ticket Accepter

闸道信息 Gate Control LED Display

余额显示 Money Remain LED Display

闸机 Gate

管理中心 Management Center

多串口卡 Serial Card

进出管理系统 Come in and Go out Management System

多串口卡 Serial Card

行使信息系统 Driving Information System

银行 A T M 系统

Banking ATM System

Commercial Communication
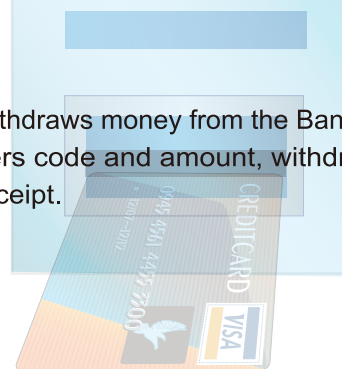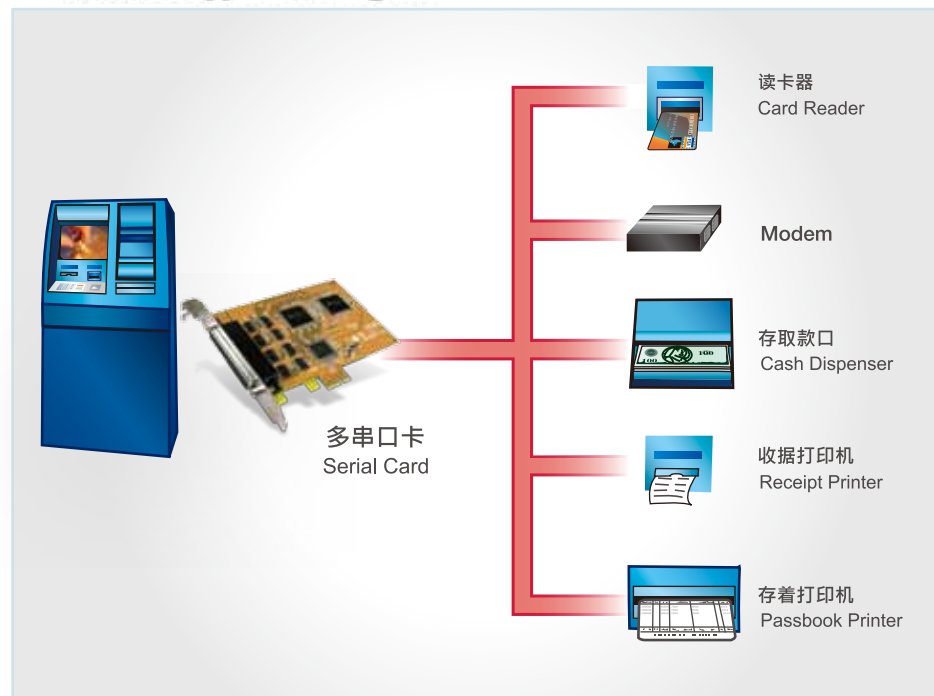

到了银行，爱蜜莉先到银行的自动柜员机领钱，从插入金融卡到领取现金，印出对帐明细单，过程不用3分钟，爱蜜莉很小心的把钱收好。

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.

应用图示 Application Diagram

读卡器
Card Reader

Modem

存取款口
Cash Dispenser

多串口卡
Serial Card

收据打印机
Receipt Printer

存着打印机
Passbook Printer

领好了钱，爱蜜莉抽了号码牌，当号码轮到她时，她上前一步向柜枱行员说明她想要汇款的事情，柜枱小姐很熟练的用点钞机清点金额，并且帮爱蜜莉补折好，完成汇款的手续。

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.

应用图示 Application Diagram

管理中心
Management Center

多串口卡
Serial Card

柜台1
Counter

多串口卡
Serial Card

Parallel   Rs-232   TTL

打印机	LED显示器	读卡器	点钞机	小键盘	电子版	票据打印机
Printer	LED Display	Card Reader	Currency Counter	Keypad	Digital Board	Ticket Print

Commercial Communication
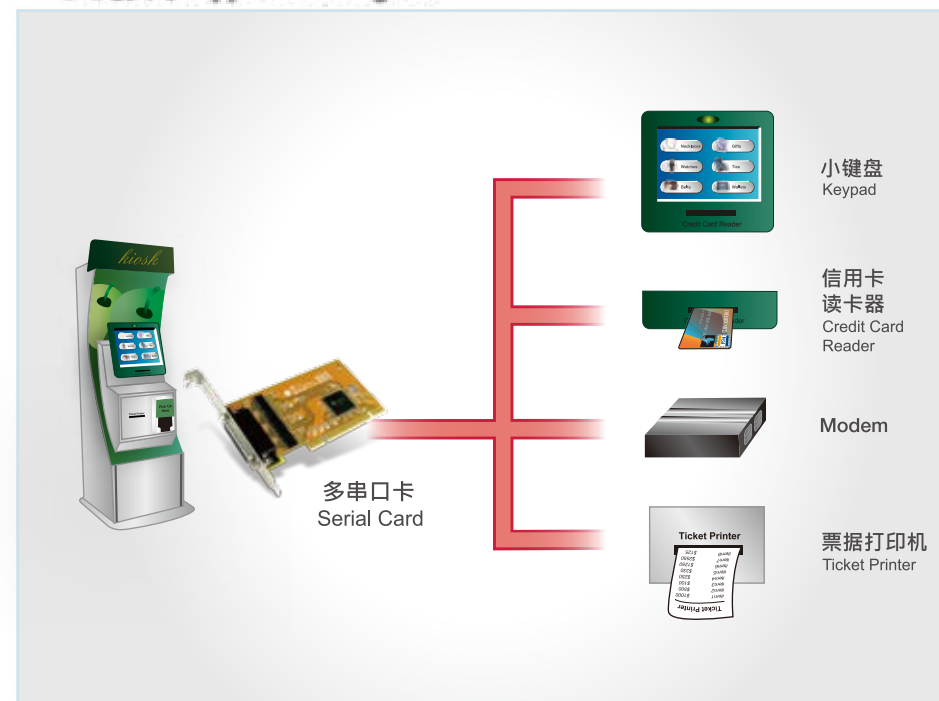
爱蜜莉照着早上讨论的计划，吃完丰盛的晚餐后要看一场好看的电影，爱蜜莉利用media station轻松的点选场次，先购买好晚上全家人的3张电影票。

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.

应用图示 Application Diagram

小键盘
Keypad

信用卡
读卡器
Credit Card
Reader

Modem

多串口卡
Serial Card

票据打印机
Ticket Printer

彩票系统
Lottery System

在回家的路上，爱蜜莉特别绕到了乐透行，她想今天是结婚10周年，一定会有很好的运气，乐透机很快的印出了彩券，老板笑着预祝爱蜜莉中大奖，爱蜜莉听了好开心。

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.

应用图示 Application Diagram

管理中心
Management Center

多串口卡
Serial Card

Rock Modem

多串口卡
Serial Card

LED显示器
LED Display

彩票打印机
Tag Printer

现金收款箱
Cash Register

读卡器
Card Reader

Modem

露西上了公交车，拿出票卡在传感器感应了一下，司机先生称赞露西是个很可爱有礼貌的小女生，露西开心的笑了。

Lucy takes the bus everyday to school. She places the smartcard on a senor 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.

应用图示 Application Diagram

车载屏
Bus Display

读卡器
Card Reader

GPS

多串口卡
Serial Card
(Rs-232 Module)

票据打印机
Ticket Printer
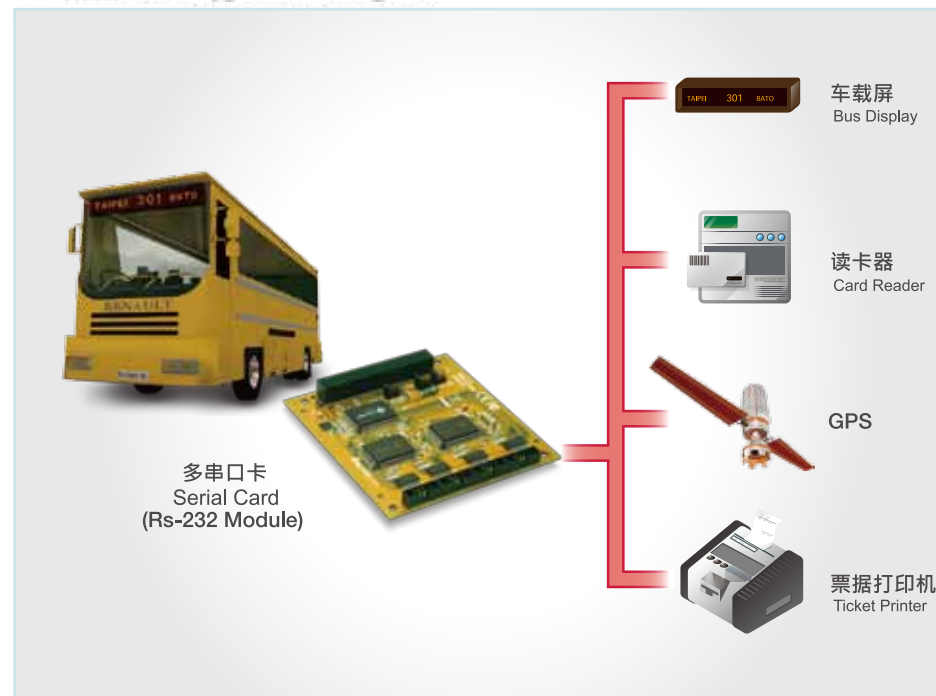
Commercial Communication

露西利用下午下课的时间，到操场旁边的自助售货机，投币以后选择了她最爱的可尔必斯，真的好开心。

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.

应用图示 Application Diagram

读卡器
Card Reader

LED显示器
LED Display

小键盘
Keyboard

多串口卡
Serial Card

投币控制
Coin Validator

机器手臂
Crane-Claw

点菜系统
Order System

Commercial Communication
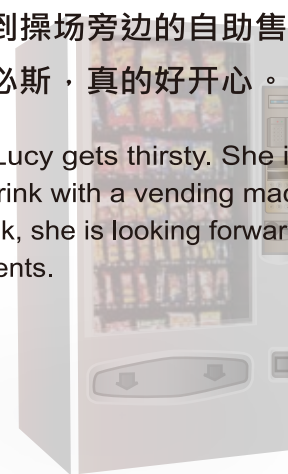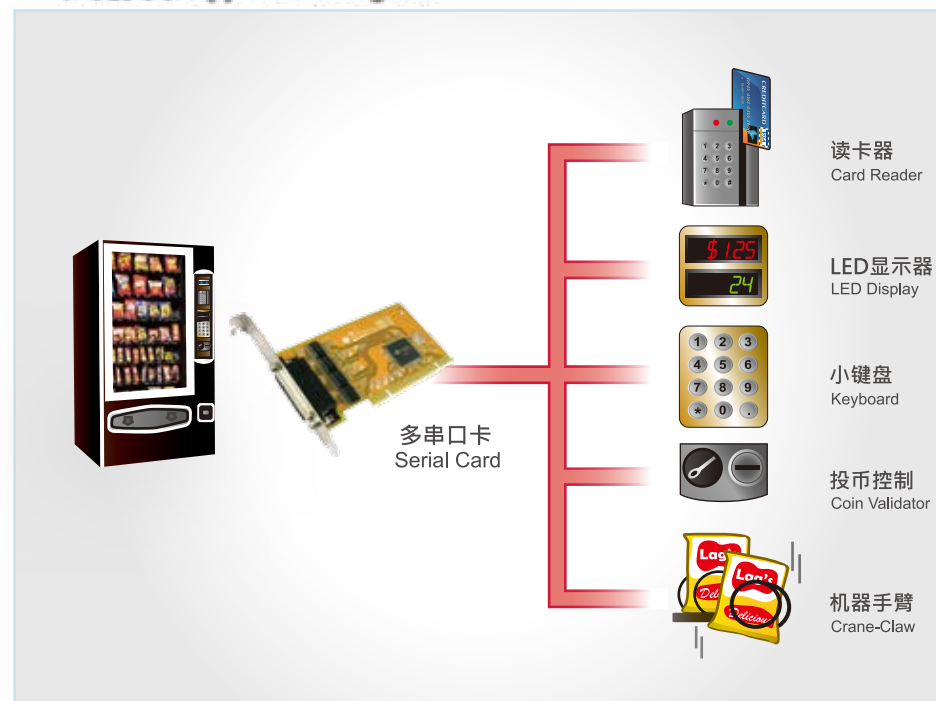
罗勃选了一家很棒的西餐厅，爱蜜莉和露西特别打扮后和罗勃会合，餐厅的气氛好极了，服务员在旁边用手持系统快速的帮罗勃一家人点餐。

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.

应用图示 Application Diagram

点菜系统

管理中心
Management Center

PDA

Kitchen

打印机
Printer

触摸屏
Touch Screen

Ordering Counter

打印机
Printer

触摸屏
Touch Screen

Cash Register

LED显示器
LED Display

标签打印机
Tag Printer

条形码扫描器
Barcode

现金收款机
Cash Register
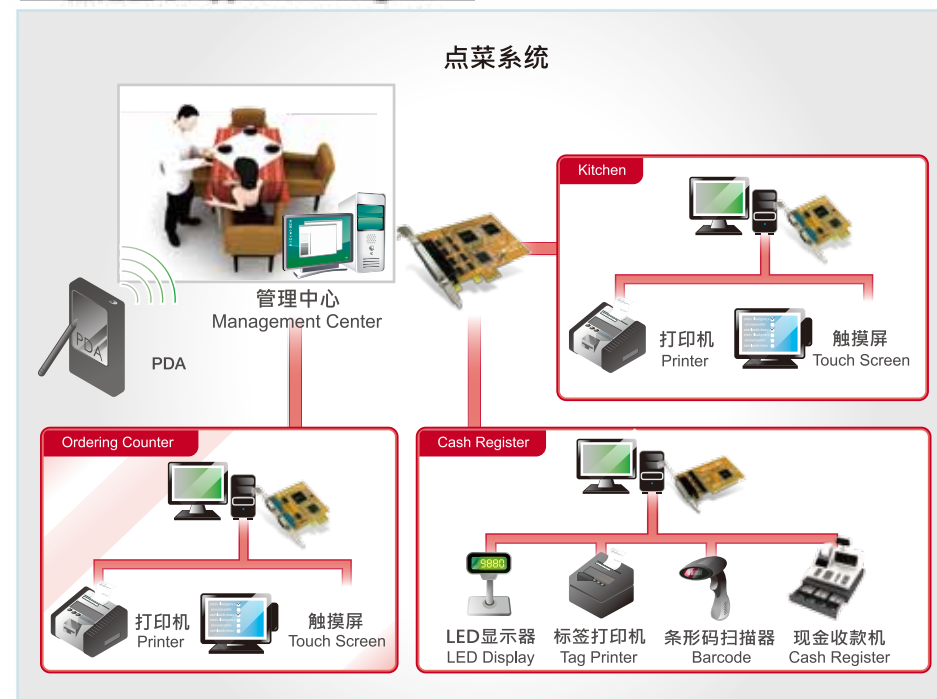
大头贴拍照机

Photo Taking Machine

吃完了丰盛的晚餐，罗勃带着爱蜜莉和露西来拍大头贴，为结婚10周年留下记忆，露西开心的在照片上东点西选，为全家都装扮了不一样的造型，做成了一张可爱的大头贴。

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.

应用图示 Application Diagram

多串口卡
Serial Card

投币控制
Coin Validator

投币控制
Buttons

照片打印机
Photo Printer
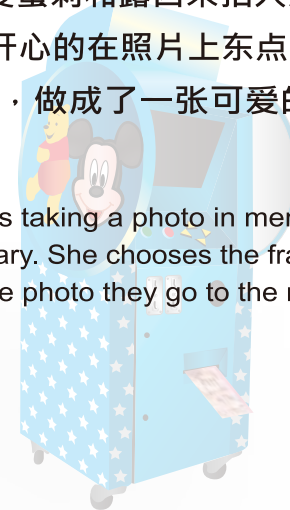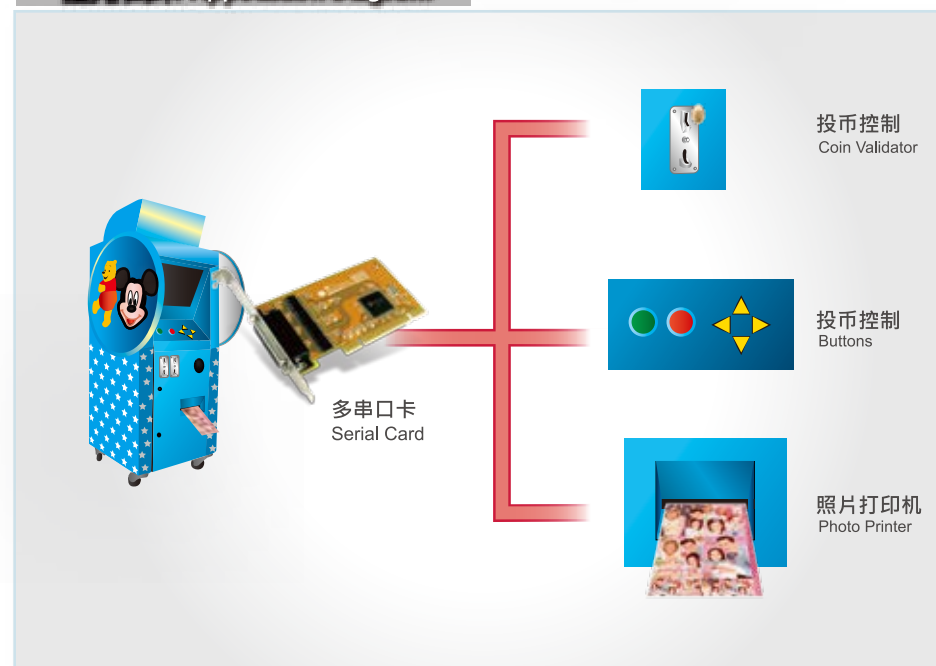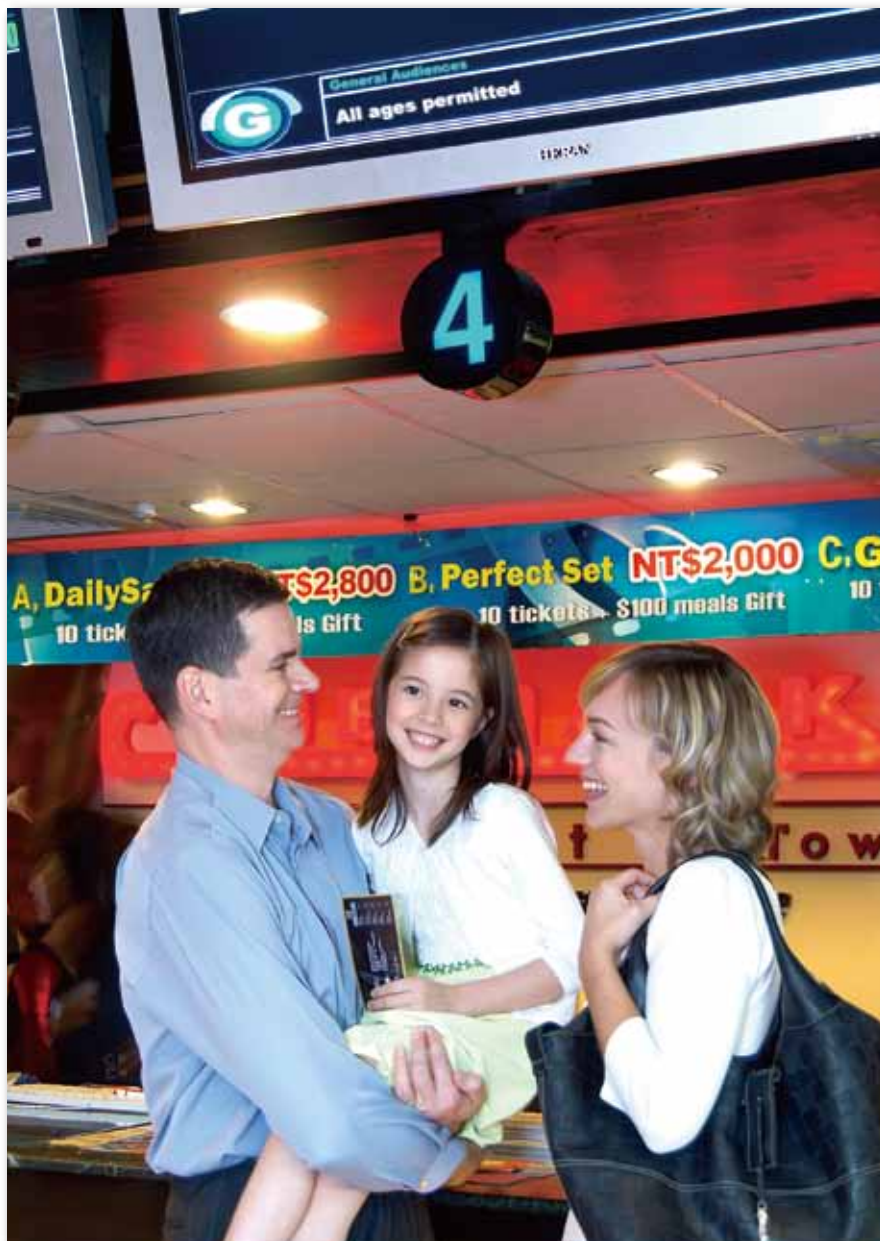
电影快开演了，罗勃全家到了电影院，售票人员将爱蜜莉下午预购的电影票印出交给露西，一家人开心的准备看一场好看的电影啰！

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.

应用图示 Application Diagram

数据库
Databases

多串口卡
Serial Card

多串口卡
Serial Card

LED显示器
LED Display

票据打印机
Ticket Printer

读卡器
Card Reader

触摸屏
Touch Screen

霓虹灯广告控制

Advertisement Billboard

Commercial Communication

看完电影，夜也有点深了，露西在车子里睡着了，但是罗勃和爱蜜莉看着回家路上眩目的七彩霓虹不停的变换，他们知道，他们的人生也同样将是如此精彩！

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.

应用图示 Application Diagram

多串口卡
Serial Card

Neon Light Advertisment

Commercial Communication

社会篇
Society

强森一家与无所不在的商务通信生活
The Johnson family and commercial communication all around us

通信生活

社会篇 – 强森一家与无所不在的商务通信生活
Society   The Johnson family and commercial
           communication all around us

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Commercial Communication

强森全家今天很难得地全员到齐聚餐，平时各自忙碌。

爸爸Gary 是一个重要政府官员，公务行程总是排满行程;而儿子Ted，今年刚好大学毕业，在暑假结束之后，将到他最向往的英国继续深造时装设计。

爷爷Sam 跟奶奶Dianna 也计划来一趟享受人生的豪华游轮之旅，至于贴心的妈妈Janet 则替全家人在此时此刻，安排了一个拍摄全家福的活动。

Today, the entire Johnson family has finally got together. Usually, everyone is very busy. Father, Gary, is an important government official whose official travel schedule is always fully booked. Ted, his son, has just graduated from college this year. At the end of summer vacation, he will go to the UK for further studies in fashion design.

Grandpa Sam and Grandma Dianna are also planning a trip on a luxury cruise ship to enjoy life. Meanwhile, thoughtful and caring Mother Janet has arranged for a family portrait to be taken.

自动证件照相机
Photo Taking Machine

Ted 起床后从容地梳洗一番，今日计划准备入学需要的相关数据及采买所需要的用品，**Ted** 来到了快速证件照片机，仔细的阅读了操作步骤后，整理完自己的仪容，开始操作使用快速证件照片机，自动化的便利设计，**Ted** 很顺利的拿到了办理证件所需要的大头照。

After getting out of bed, Ted slowly freshens up. Today, he is planning to prepare the information required for school admittance and buy the needed supplies. After leaving home, Ted comes to a fast passport photo machine where he carefully reads the steps, arranges his appearance, and then begins to operate the photo machine. Because of the convenient automation design, Ted gets his head shot photos very quickly and smoothly.

应用图示 Application Diagram

投币控制器
Coin Validator

触摸屏幕
Touched Screen

串口卡
Serial Card

凭条打印机
Printer

座位按钮与拍照按钮
Button

自动证件照相机
Photo taking Machine
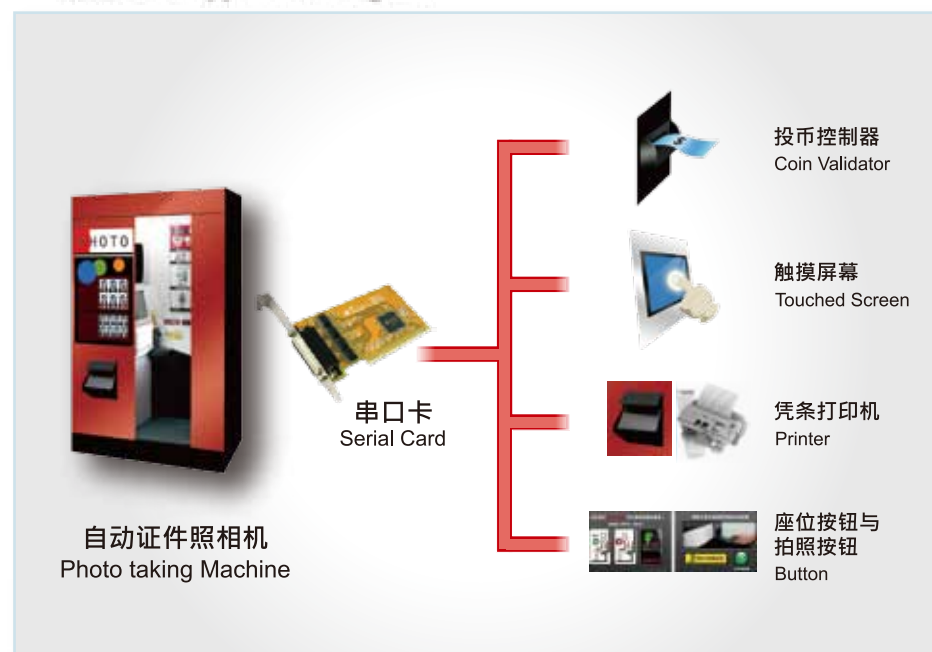
接著Ted 依照一週前預約的身體健康檢查，這是一家專業的健康檢查中心，Ted 進入聽取服務人員的今日健康檢查的流程項目說明，隨後由醫護人員指引，展開各項的檢查。

Ted then goes to his health examination appointment, which he made a week ago. This is a professional health examination centers. Ted listens to the examination process and the items that will be examined, then follows the medical staff to complete all the examinations.

应用图示 Application Diagram

中心数据服务器
Central Database Server

环网
Elite-Ring

Ethernet

医院工作站
Hospital Workstations

医院工作站
Hospital Workstations

Serial　　Serial　　Serial

实验室测试　　放射性测试　　HMI
Laboratory Testing　Radiology Testing

Commercial Communication

多媒体数字广告牌
Digital Signage
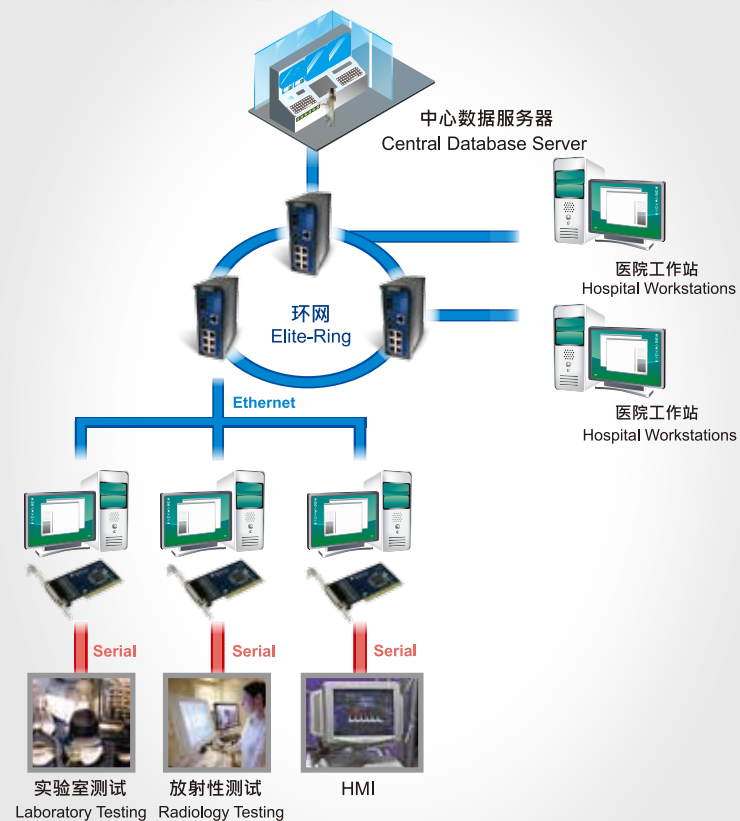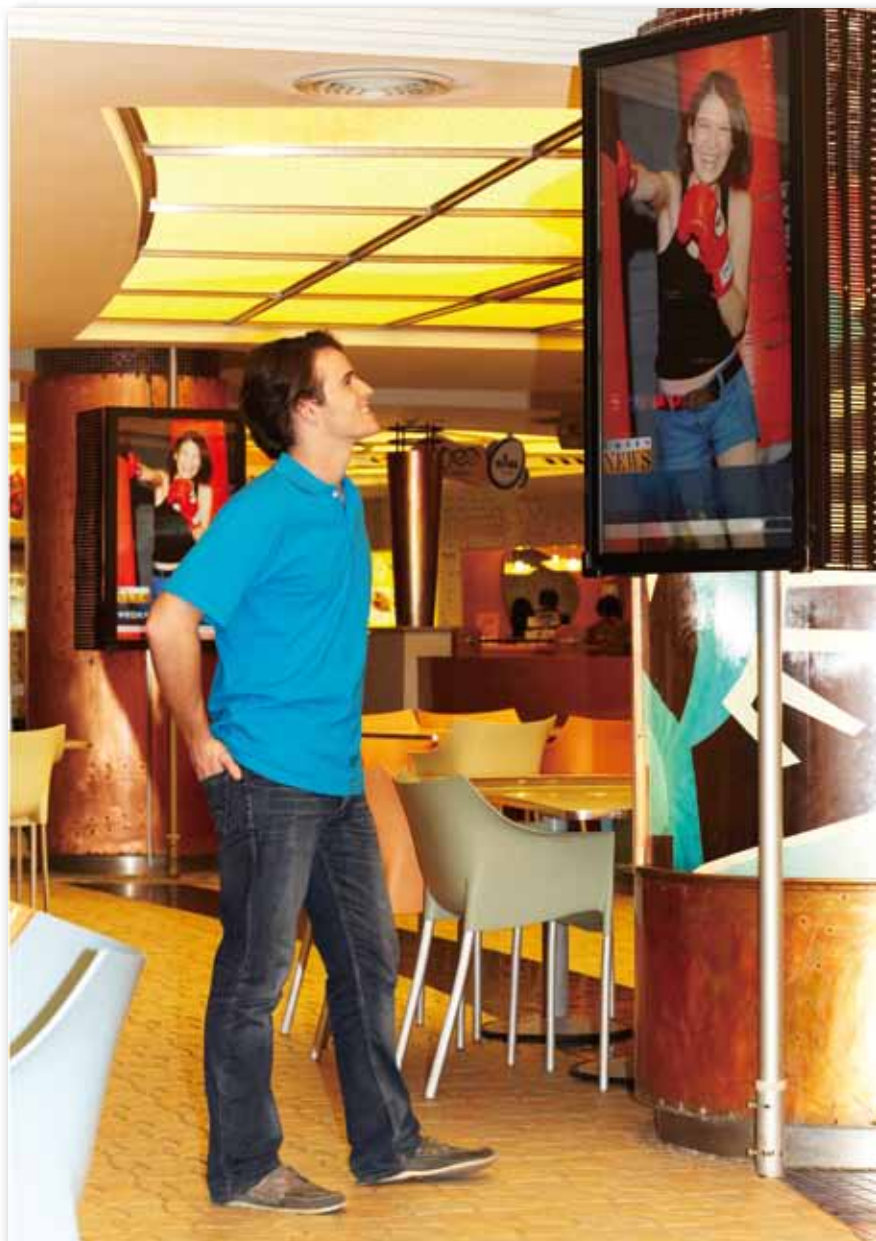
健康检查耗费Ted 整个上午，这时候Ted已经有点饿了，于是他前往购物中心的餐厅用餐。在购物中心里，Ted 目光给眩目的广告多媒体数字广告牌所吸引，专注广告牌上的活动讯息。

Ted spends the entire morning on the health examination. By this time, Ted is a little bit hungry, so he goes to the shopping center for a bite to eat. At the shopping center, Ted is attracted to the glimmering billboard advertising and the messages shown on the electronic panels.

应用图示 Application Diagram

USB3.0
Graphics Adapter

显示器
Monitor

USB / 以太网 转 视频输出
Ethernet Graphics Adapter

计算机
Computer

显示器
Monitor

DisplyPort 屏幕分接器
DP-HDMI DP-2/4*DP

计算机
Computer

Commercial Communication

用餐后，Ted 转往商店街采购，Ted 拿出事先列好的购买清单，很快地购物车上大大小小的物品。结账时，Ted 看着收款机的第二个屏幕，确认自己所购买的项目金额是否正确。

After the meal, Ted goes to the shopping street to do some shopping. Ted takes out a pre-written list of things to buy and quickly fills up his shopping cart with all sorts of items. At the cash register, Ted looks at the second screen on the cash register to check that the purchase amount is correct.

应用图示 Application Diagram

RS-232 钱箱卡 Cash Drawer Card

12V 电源
+12V DC Power

钱箱界面
Cash Drawer Interface

RS-232

触摸屏
Touch Screen

数码枪
Barcode Reader

客显屏
Monitor

打印机
Tag Printer

钱箱
Cash Drawer

铃铃铃～Ted 的手机响了，原来是好朋友来电了，他们邀 Ted 今晚一起到 KTV 举行欢送Ted 的Party。在 KTV 里 Ted 非常开心的和朋友一起大声唱歌、开心跳舞。

Ring, ring, ring! ~ Ted's cell phone begins to ring. The call turned out to be from a good friend, inviting Ted to go to a KTV together tonight for his farewell party. At the KTV, Ted is very happy, singing loudly and having fun dancing with his friends.

应用图示 Application Diagram

Commercial Communication
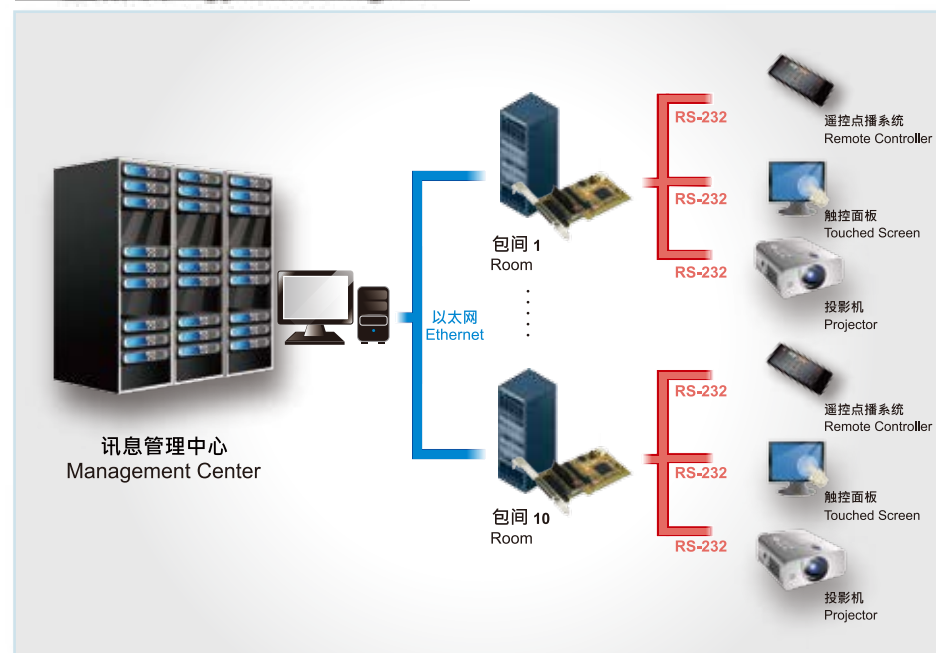
时间来到了Ted 出发留学的日子，这天Gary 也特别地排除公务，全家人一起到机场为Ted 送别，Janet向儿子叮咛要注意安全以及身体的保健，Ted 向他亲爱的家人一一的拥抱后，转向登机门去。

随着Ted的新旅程，一家人也展开各自的生活旅程。

The time turns to the day Ted is going abroad to study. On this day, Gary makes a special effort to block out all official business so that he can be with the whole family to send off Ted at the airport. Janet keeps reminding Ted to pay attention to safety and to take good care of himself. Ted hugs and says good bye to his dear family, then turns around and boards the plane.

As Ted embarks on his new journey, his family goes on their own life journeys.

应用图示 Application Diagram

Parallel

打印机 Printer

数码枪 Barcode

刷卡机 Passport Reader

电子秤 Baggage Security

传送带 Baggage Scales

串/并口卡
Multi I/O Card

媽媽Janet 在全家人陸續出門之後，整理最近家里的公共事业缴费通知，在网上为家里的水费、电费、燃气费充值，完成後，Janet 確認家中保全系統設定正常，就安心的出門去了。

After everyone has gone out, Mother Janet begins to sort out their recent utility bills. She goes online to pay the water, electricity, and natural gas bills. Once Janet makes sure the home security system is on, she goes out with a peace of mind.

应用图示 Application Diagram

软件管理接口
用户查询端
Data Search

用户电表
串口传输数据
Meter Data

串口服务器
RS-232 to Ethernet
Device Server

交换机
Ethernet Switch

终端服务器
Server

串口卡
Server

读卡器 Card Reader

门禁系统
Door Control System

读卡器 Card Reader

出勤系统
Attendance System

Commercial Communication

Janet 首先来到了邮局，因为Janet 远住在巴黎的妹妹Amy 生日即将到来，Janet 特地精心准备礼物，将准备好的礼物包裹好，邮寄传送祝福给Amy。

Janet first goes to the post office because she wants to send a specially prepared gift to her sister, Amy, who is living in Paris, for her upcoming birthday. Janet wraps the gift carefully, then mails her blessings to Amy.

应用图示 Application Diagram

串口卡
RS-232 Serial Card

秤重机
Package Scales

数码枪
Barcode Reader

打印机
Barcode Printer

盖章机
Postmark Machine

串口卡
RS-232 Serial Card

存折打印机
Passbook Printer

码键盘
Code Keyboard

读卡器
Card Reader

城 市 自 行 车 租 借 系 统
Public Bicycle Parking System

Janet 轻松的踏出邮局，到了市区提供的城市自行车租借系统，依照步骤操作，借到了一台脚踏车，骑往下一站…

Janet steps out of the post office with a breeze, then goes to the part of town where there is a bicycle rental system. She follows the directions and is able to rent a bike to go to her next stop .

应用图示 Application Diagram

串口卡
Serial Card

触摸屏
Touch Screen

LED 显示屏
LED Display

密码键盘
Key Pad

刷卡机
Card Reader

凭条打印机
Receipt Printer
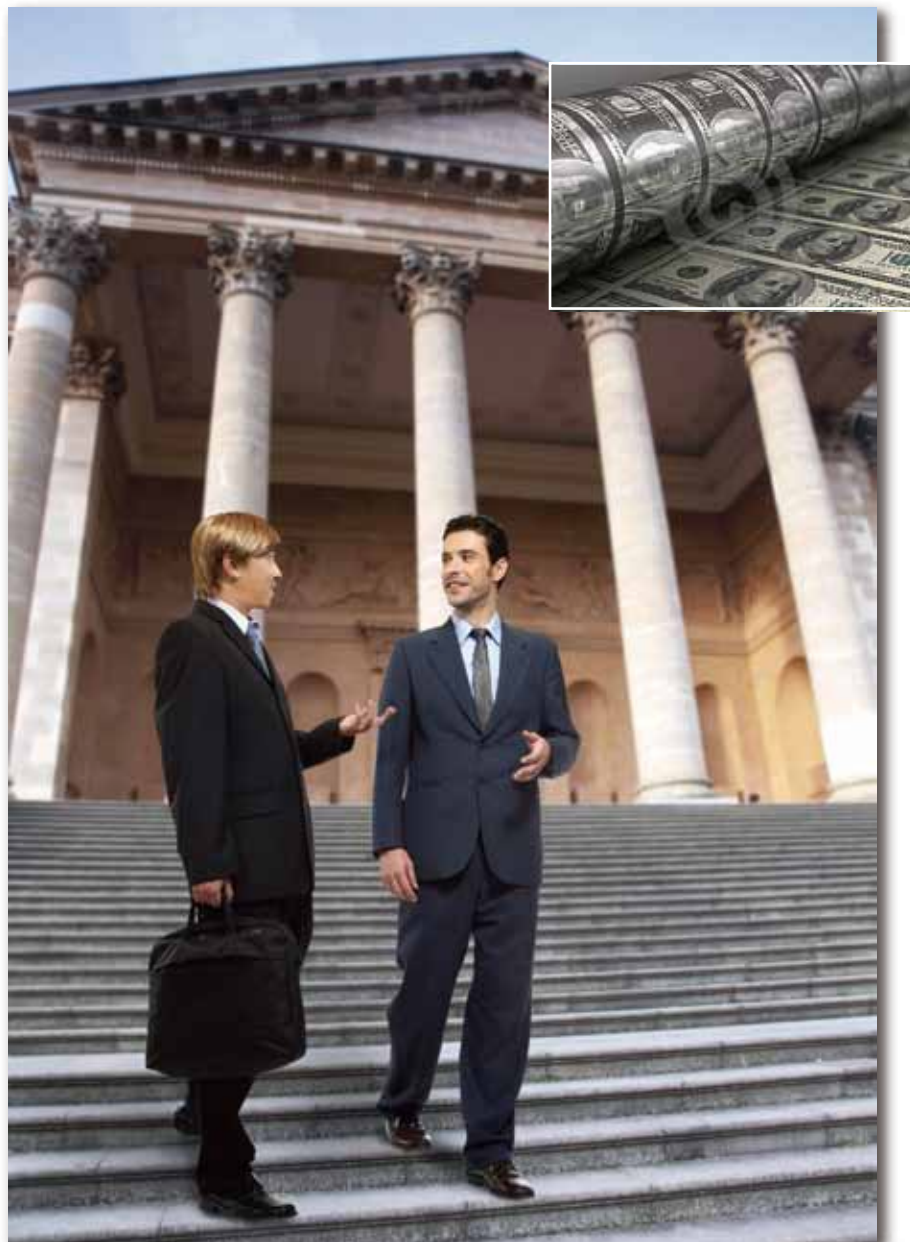
Commercial Communication

正是纳税的季节，在税务局里人潮众多，Janet 抽了号码牌，找了个位置等候。等了一会终于排到Janet ，她拿出已计算好的税务单，柜员核对无误！Janet 顺利完成缴税了。

It is currently the tax season. There are a lot of people inside the Tax Bureau. Janet takes a number and finds a place to wait. After a while, it is finally Janet's turn. She takes out her filled out tax return and completes her tax payment after the teller verifies that all the information is correct.

应用图示 Application Diagram

讯息管理中心
Management Center

并口自动侦测
Parallel Auto-Detective Screen

多串口I/O卡
Multi-I/O Card

Parallel

RS-232

点阵打印机
Dot-Matrix printer

刷卡器
Card Reader

印鉴扫瞄仪
Scanner

凭条打印机
Ticket Printer

钞票印刷与办识系统

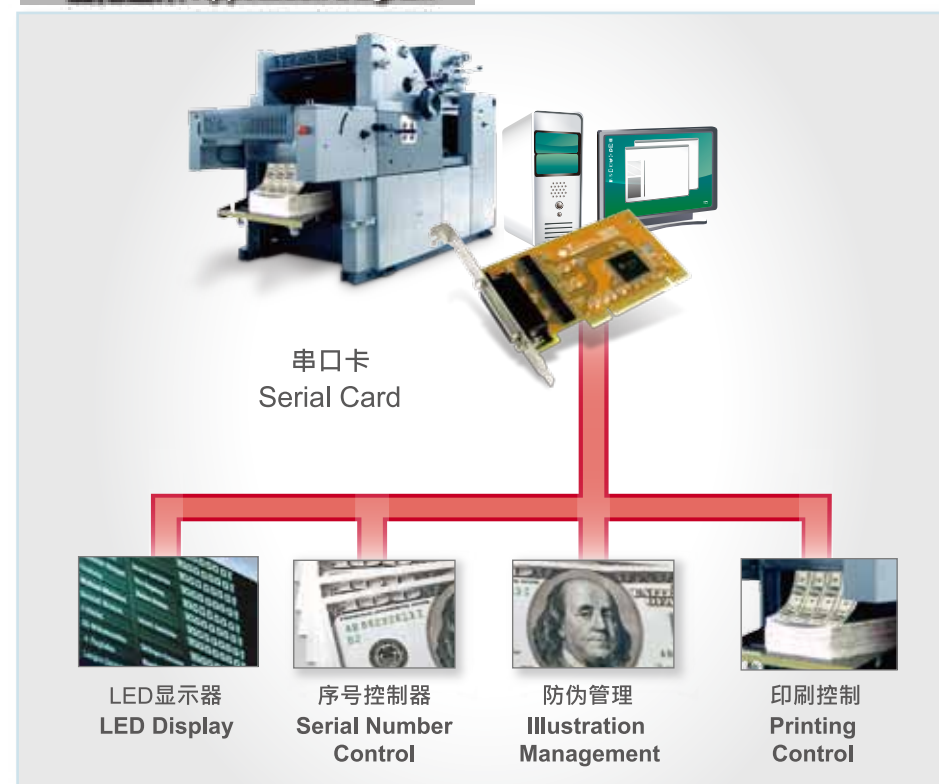## Banknote Printing and Counterfeit Banknote Counters

爸爸Gary 这两天排满了公务；出差行程一个接一个。上了车前往今天第一个安排的查访目的地 - 钞票印刷机辨识系统。毕竟科技日新月异，需要有更新的防伪技术，以避免伪钞在市场上流通。

For the past two days, Father Gary's official schedule has been fully booked. Business trips have been arranged one after another. Gary gets in the car to head towards the first site visit arranged for today - the money printing recognition system. After all, with all the technological advances, there is a need for the latest anti-counterfeiting technology to prevent counterfeit banknotes from circulating in the market.

应用图示 Application Diagram

串口卡
Serial Card

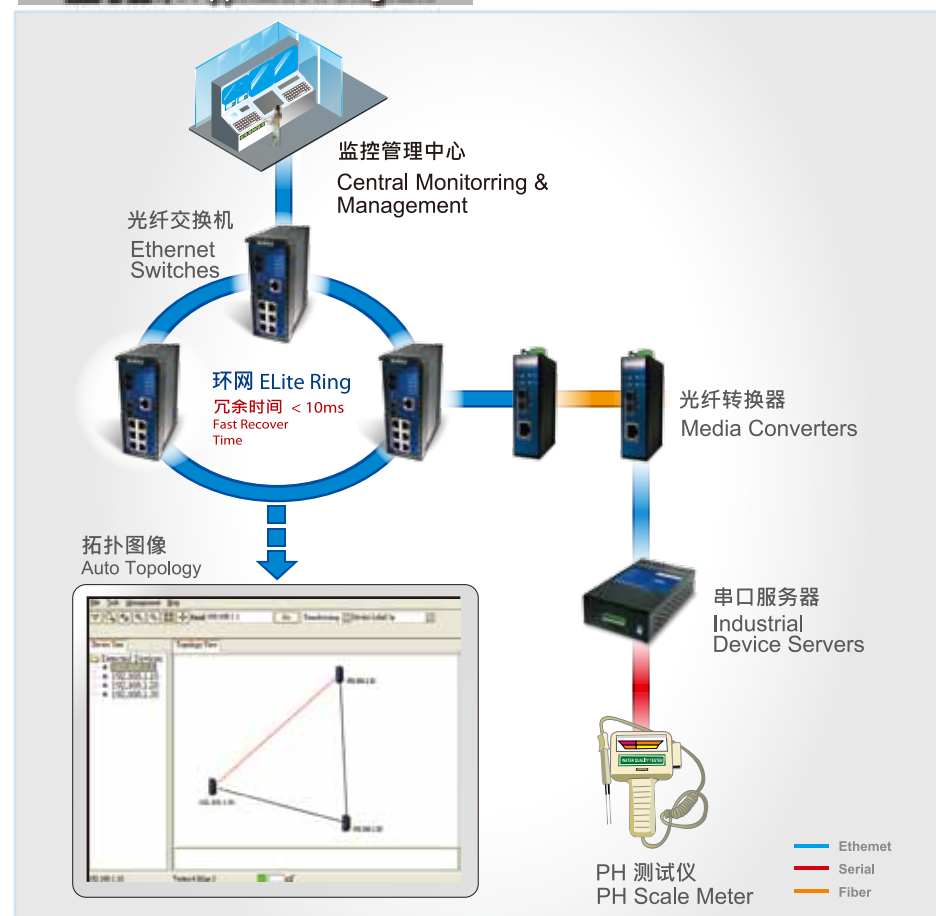| LED显示器 LED Display	序号控制器 Serial Number Control	防伪管理 Illustration Management	印刷控制 Printing Control

水 质 监 控 管 理 系 统
Water Quality Monitoring

第二站，**Gray** 来到了水库的水质监控中心，听取了整个水质管理监控的流程及报告，也一并了解水质管理新工程目前的进度。

The second site visit, Gary has come to the reservoir water quality monitoring center to listen to the entire water quality management and monitoring processes and reporting as well as understand the current progress of the new Water Quality Management project.

应用图示 Application Diagram

监控管理中心
Central Monitorring & Management

光纤交换机
Ethernet Switches

环网 ELite Ring
冗余时间 < 10ms
Fast Recover Time

光纤转换器
Media Converters

拓扑图像
Auto Topology

串口服务器
Industrial Device Servers

PH 测试仪
PH Scale Meter

Ethernet
Serial
Fiber

军事导弹测试监控系统

Missile Launch Control Testing and Simulation System

为了一年一度即将来临的军事演习，紧接着Gray 前往下一个地点：军事导弹测试监控系统。随着三发信号弹升空，实兵实弹的军事演习拉开序幕。演练按照全套的方式进行，历时四个小时完成实弹演习。这时已入夜了， Gray 进入到饭店整理今日一天行程。

For the upcoming annual military exercises, Gary headed for the next location: military missile testing monitoring system. As three flares went off into the sky, the live ammunition military exercises officially began. This was a full, live military exercise, lasting for four hours. By the time it ended, it is already night time. Gary goes to a hotel to organize today's trips.

应用图示 Application Diagram

导弹射控系统
Self-Detection System

16口高速串口卡
16-port RS-232
High-Speed PCI Card

卫星通讯
Receipt Satellite Information

目标锁定系统
Lock Target

导弹仿真系统
Missile simulation
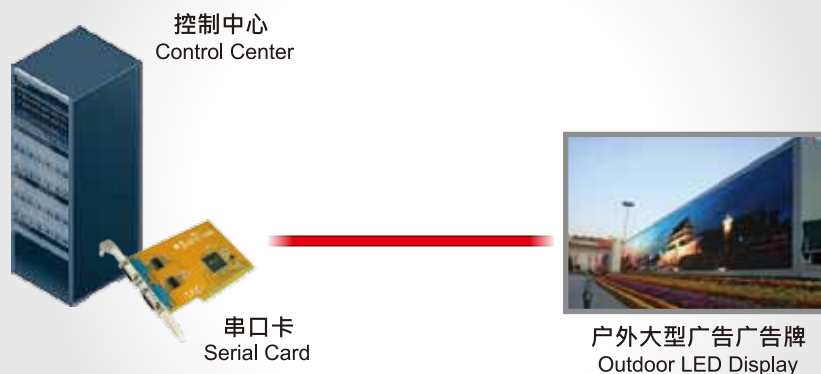
户外电视墙播放系统
Outdoor LED Display System

隔天，Gray 依然起个大早，因为今天需要视察几个重要的建设状况。首先来到大广场，在广场上有许多早起的人们，有的跳舞、做操、打球、跑步、遛狗... 等活动，Gray 认为这个大电视墙应要好好善加利用，放置公众倡导与知识给民众。

The next day, Gary still gets up early because today he needs to inspect the progress of a number of important construction projects. He first goes to a plaza. At the plaza, there are many people who have gotten up early. Some are dancing while others are exercising, playing ball, jogging, walking their dogs ...... Gary believes that the big TV wall should be put to good use by showing general announcements and information to the public.
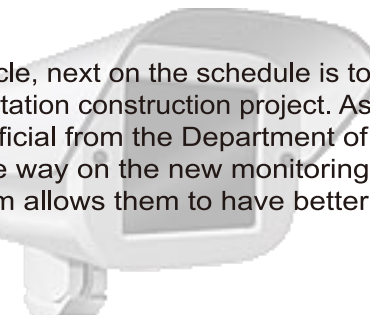
应用图示 Application Diagram

控制中心
Control Center

串口卡
Serial Card

户外大型广告广告牌
Outdoor LED Display

高 速 公 路 视 讯 监 控
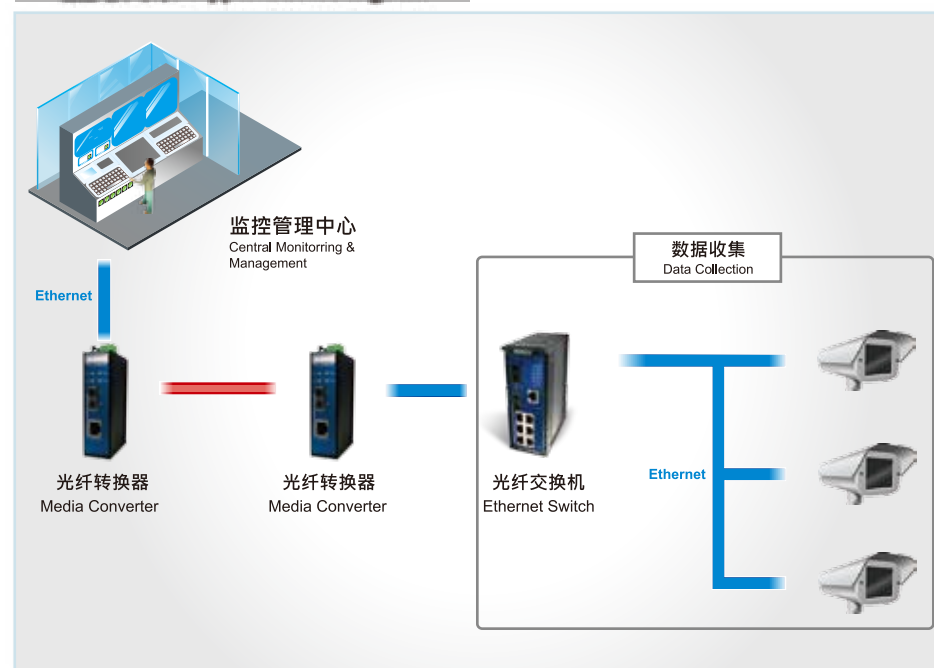## Highway Face Recognition Systems

Gray 搭乘上公务车，接下来的行程则是尖心交通建设的状况，车子开往高速公路前去，沿路由交通局的负责单位向 Gray 报告说明目前采用新个监视系统，已控管掌握整个高速公路的路况。

Gary goes on the public service vehicle, next on the schedule is to take a look at the status of a transportation construction project. As the car heads for the highway, an official from the Department of Transportation briefs Gary along the way on the new monitoring system being used. This new system allows them to have better control over highway conditions.

应用图示 Application Diagram

监控管理中心
Central Monitorring & Management

数据收集
Data Collection

Ethernet

Ethernet

光纤转换器
Media Converter

光纤转换器
Media Converter

光纤交换机
Ethernet Switch

高速铁路自助售票系统
High-speed Railway Gate Systems

接下来到铁路局的铁路控制管理中心，了解铁路使用量的状况，铁路搭配新的控制管理系统是否有改善运输量拥挤的状况；另外新提供给民众的自助售票系统是否有需要改善的部份。

Next, Gary arrives at the Railway Bureau's Control Center to understand the railway usage situation and to see whether or not the new control system has helped improve transportation volume and congestion. In addition, he also checks to see if the new self-service ticketing system that is available for the public needs any improvement.

应用图示 Application Diagram

LED显示器
LED Display

密码键盘
Keypad

出票器
Ticket Dispenser

投币器
Coin Validator Control

LED警告器
Warning LED Information

找零
Coin Exchange

串口卡
Serial Card

地铁售票
Ticket Collection

讯息管理中心
Management Center

串口卡 Serial Card

操作讯息系统
Driving Information System

CMS可变讯息标志
CMS changeable message sign

FROM 3.30 P/HOUR
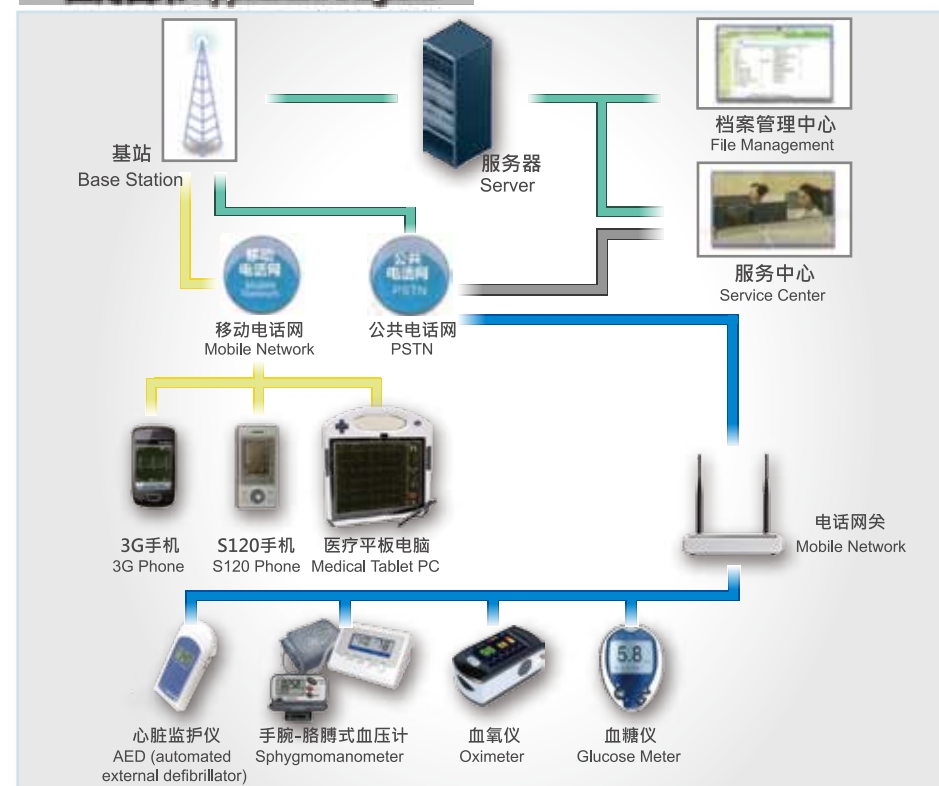
TAIPEI 3.30 P/HOUR

Commercial Communication

隔天一大早，爷爷**Sam** 跟奶奶**Dianna** 在用完早餐之后，两个人替自己做了居家健康记录 – 量测血压及体重，完成后，再把信息记录到计算机上做记录的回报。心情愉悦的爷爷奶奶，身体的状况很好，两人放心地准备要出发前往邮轮之旅。

Early the next morning, after breakfast, Grandpa Sam and Grandma Dianna perform their own health examinations at home – after measuring their blood pressure and weight, they record the information into a computer. Both grandpa and grandma are in good spirits and in good physical condition as well. They are now ready to go on the cruise.

应用图示 Application Diagram

基站
Base Station

服务器
Server

档案管理中心
File Management

服务中心
Service Center

移动电话网
Mobile Network

公共电话网
PSTN

3G手机
3G Phone

S120手机
S120 Phone

医疗平板电脑
Medical Tablet PC

电话网关
Mobile Network

心脏监护仪
AED (automated
external defibrillator)

手腕-胳膊式血压计
Sphygmomanometer

血氧仪
Oximeter

血糖仪
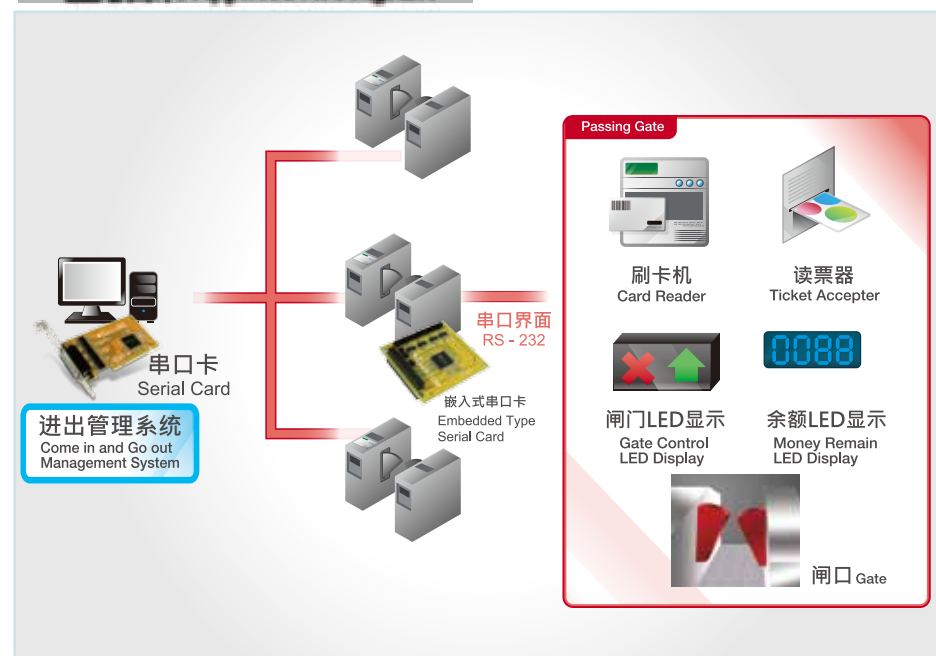Glucose Meter

铁路闸门系统
Railway Modernization System

Sam 与Dianna 准备好行李，前往铁路车站。

到站后，爷爷奶奶拿出车票，顺利地通过铁路闸门系统。

Sam and Dianna are packed and heading to the high-speed railway station.
After arriving, they take out their tickets and pass through the high-speed railway gate system.

应用图示 Application Diagram

Passing Gate

刷卡机
Card Reader

读票器
Ticket Accepter

闸门LED显示
Gate Control
LED Display

余额LED显示
Money Remain
LED Display

闸口 Gate

串口卡
Serial Card

进出管理系统
Come in and Go out
Management System

串口界面
RS - 232

嵌入式串口卡
Embedded Type
Serial Card

Shipping Bluetooth Global Positioning System
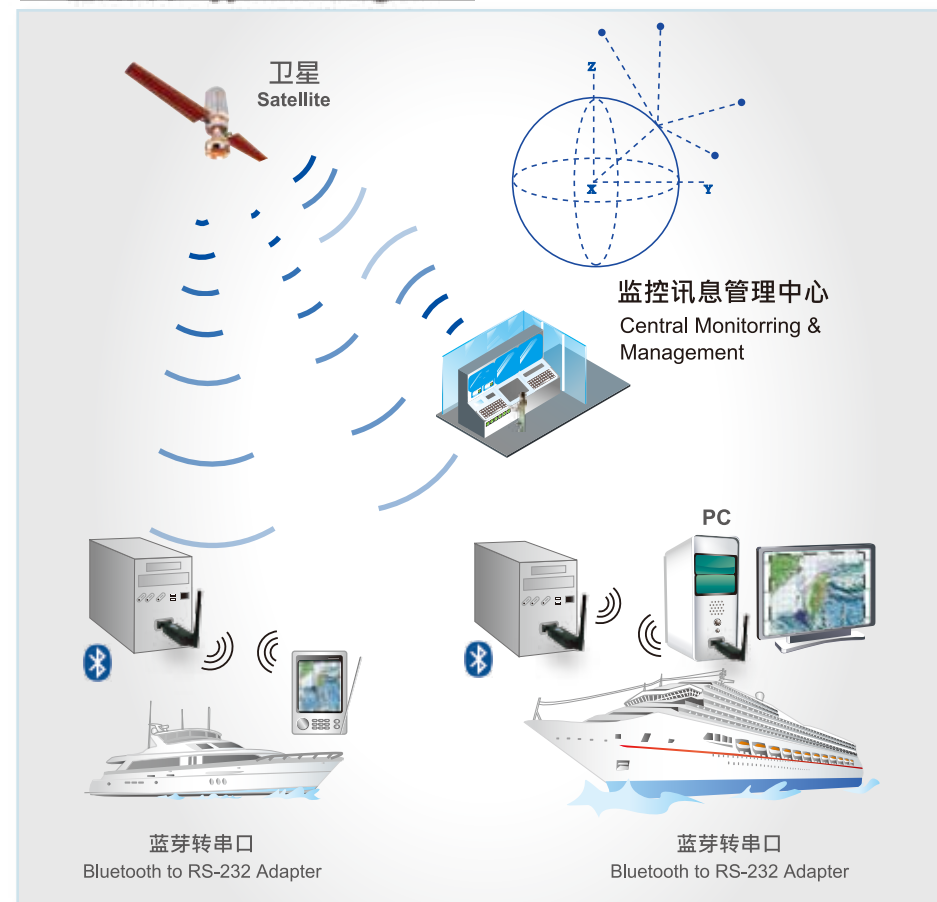
爷爷Sam 与奶奶Dianna 搭乘高速铁路经过了一个小时之后，来到了码头，看到了他们即将搭乘豪华舒适的邮轮停靠在港边，两个人兴奋不已。

After an hour on the high-speed railway, Grandpa Sam and Grandma Dianna arrive at the pier where they see the luxurious and comfortable cruise ship they are about to take docked in the harbor. Both of them are very excited.

应用图示 Application Diagram

卫星
Satellite

监控讯息管理中心
Central Monitorring & Management

PC

蓝芽转串口
Bluetooth to RS-232 Adapter

蓝芽转串口
Bluetooth to RS-232 Adapter
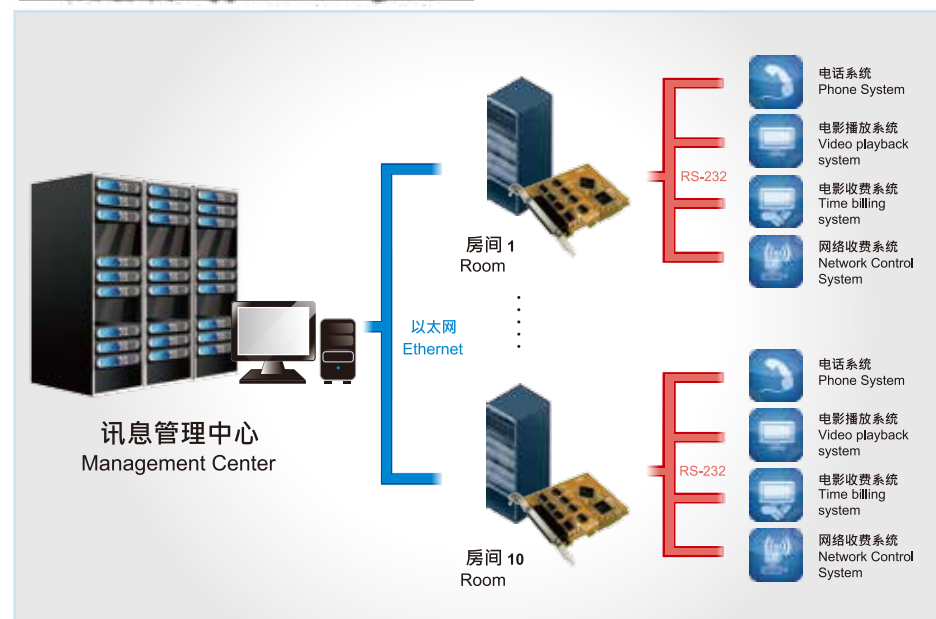
饭店客房电视付费系统
Room Control System

找到了登船的甲板，爷爷奶奶排队按照顺序登上了他们所期待游轮旅之旅，依照船上服务员的指示，找到他们的房间奶奶环顾了房间的窗景，爷爷则打开房间的机顶盒付费系统，决定轻松看一场最新的电影。

Once they find the embarkation deck, grandpa and grandma line up in order to board the cruise ship and begin the trip that they have looked forward to so much. They follow the instructions given by the attendants on board and find their room. Grandma looks around the room and at the view outside the window while grandpa turns on the room's payment system and decides to enjoy the latest movie.

应用图示 Application Diagram

讯息管理中心
Management Center

以太网
Ethernet

房间 1
Room

房间 10
Room

RS-232

电话系统
Phone System

电影播放系统
Video playback system

电影收费系统
Time billing system

网络收费系统
Network Control System

电话系统
Phone System

电影播放系统
Video playback system

电影收费系统
Time billing system

网络收费系统
Network Control System

游戏机

Gaming machine

看完了电影后，Sam 与Dianna 两人决定在游轮上到处走走，浏览游轮了导览手册与区位介绍后，爷爷兴致勃勃的到博奕游戏区试个手气，去享受彷佛身在拉斯韦加斯的娱乐气氛。

After the movie, Sam and Dianna decide to walk around the cruise ship. They browse through the ship's introduction and location map, then grandpa heads for the gambling area to try his luck and enjoy the Las Vegas like entertainment atmosphere.

应用图示 Application Diagram

RS-232

串口卡
Serial Card

触摸屏
Touch Screen

刷卡器
Card Reader

投币器
Coin Slot

售票机
Ticket Machine

Memo

Technology meets daily life