DevicePort Solution

Presentation

2015/06/17

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Target Market

Vertical Market

Commercial Automation

- School Office
- Hospital
- Bank Office
- Service Center
- Business Center
- Education Center
- Investigation Center
- KTV
- Hotel
- Shopping Mall
- Chain Store
- Library
- Bank
- Post office
- Convenience store
- Supermarket
- Lottery
- Collect station
- Transportation
- Restaurant
- Photo taking machine
- Game machine
- Vending machine
- Ticket Collection
- Gas station

IO Connectivity

Standard RS-232 Port

Card Reader, Receipt Printer, LED Display, Barcode Reader, Tag Printer

IO Connectivity

RS-232/422/485 Port

HMI (Human Machine Interface), CCD, Laboratory machine

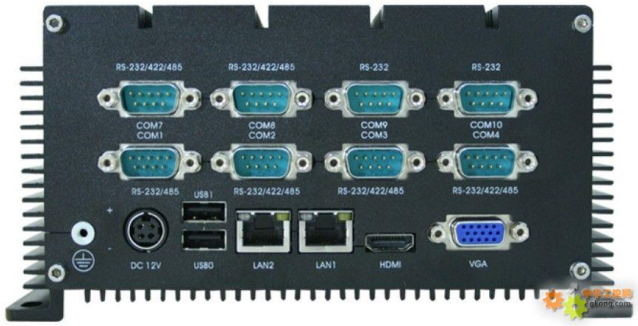
Current Solution

Current Solution

Add-on Card

External USB

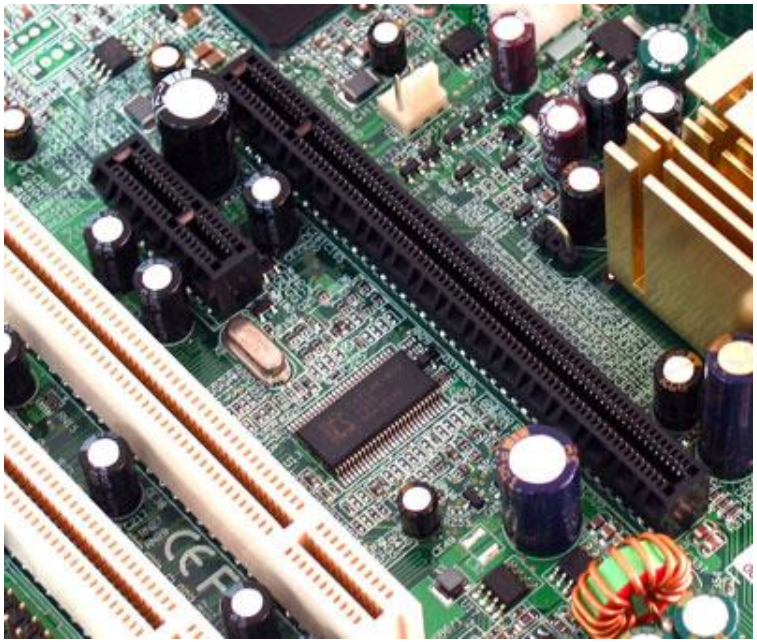
Industrial PC



IO Expansion Problem

Traditional I/O Extension over PCI Express or USB Connectivity

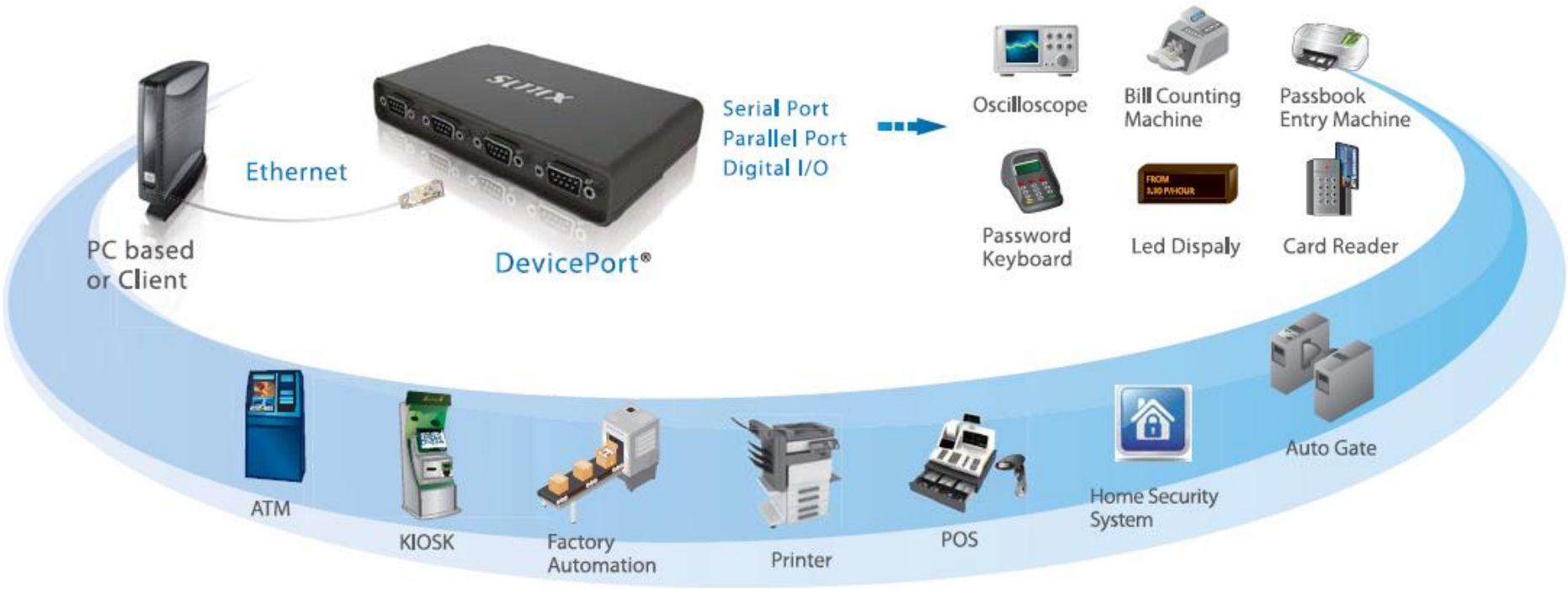
- There is no more standard PCI / PCIe bus on Tiny, AIO or UltraBook.
- USB is not good for vertical and industrial market, but for consumer.



SUNIX DevicePort Solution

DevicePort Solution

SUNIX DevicePort is the idea choice to enable your current Legacy I/O devices networking, such as RS-232/422/485 devices, digital I/O sensors, or Printers. DevicePort works as a PCIe add-on card operation without complex software configuration and supports any windows based tiny PC or AIO system over Ethernet connectivity.



DevicePort Product Line

Dock Mode

Legacy expansion

Advanced Mode

Remote control

Sharing Mode

Multiple access

DevicePort Product Type

Top quality standards and complete products series.

Easy to set up / Perfectly Matched / User-friendly Controls

Commercial Type
- Dock Mode
- Advanced Mode
- Sharing Mode

Rack Mount Type
- Advanced Mode

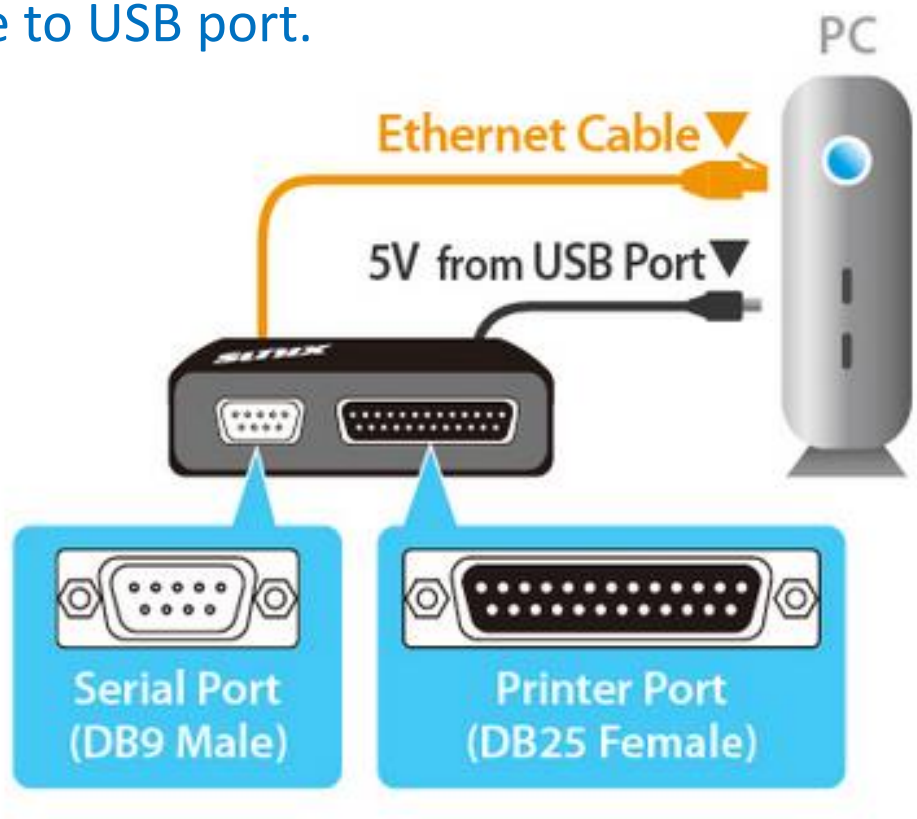
Industrial Type
- Advanced Mode

DevicePort Feature Highlight

DevicePort Easy Hardware Installation

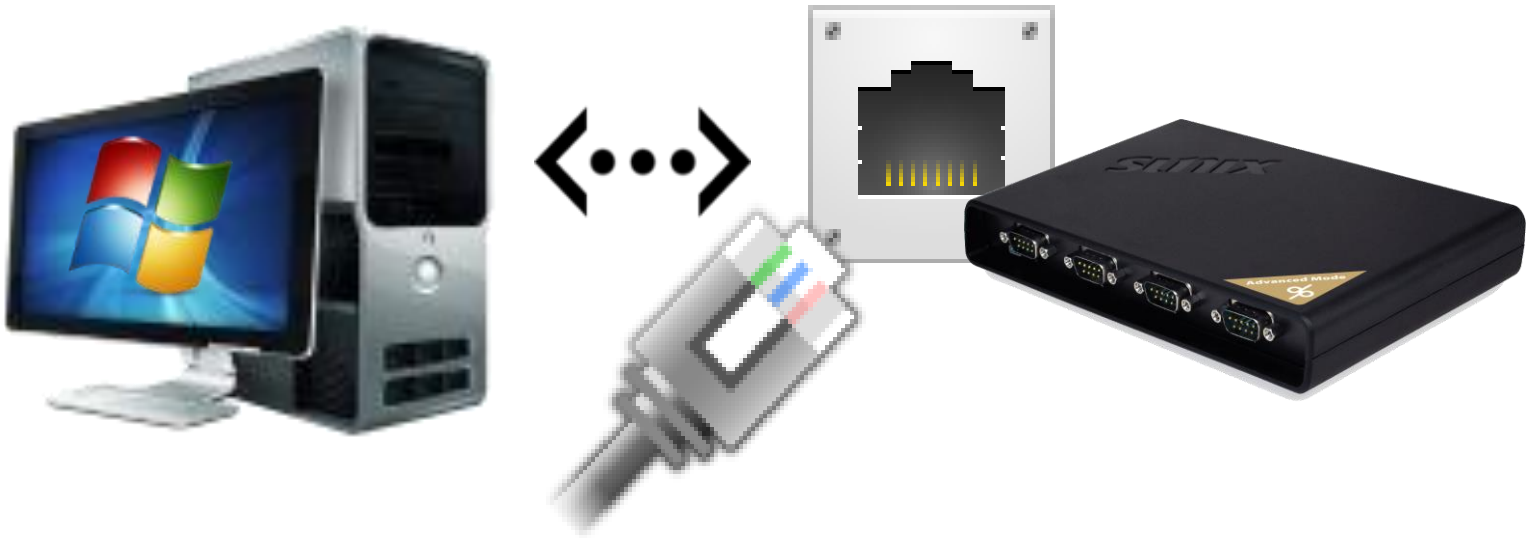
Easy Connection between PC and DevicePort

- Ethernet Cable to Ethernet port.
- Power Cable to USB port.



DevicePort Plug-n-Play Feature

Plug-n-play & Hot-Swapping without PC power-off
Even better than Add-on Card



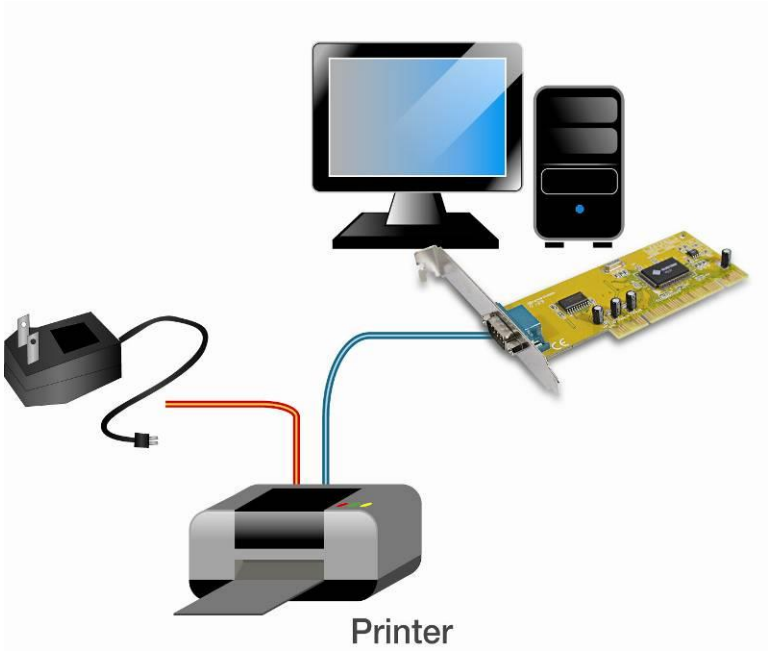
* P-n-P feature only for Dock Mode

IO Connectivity

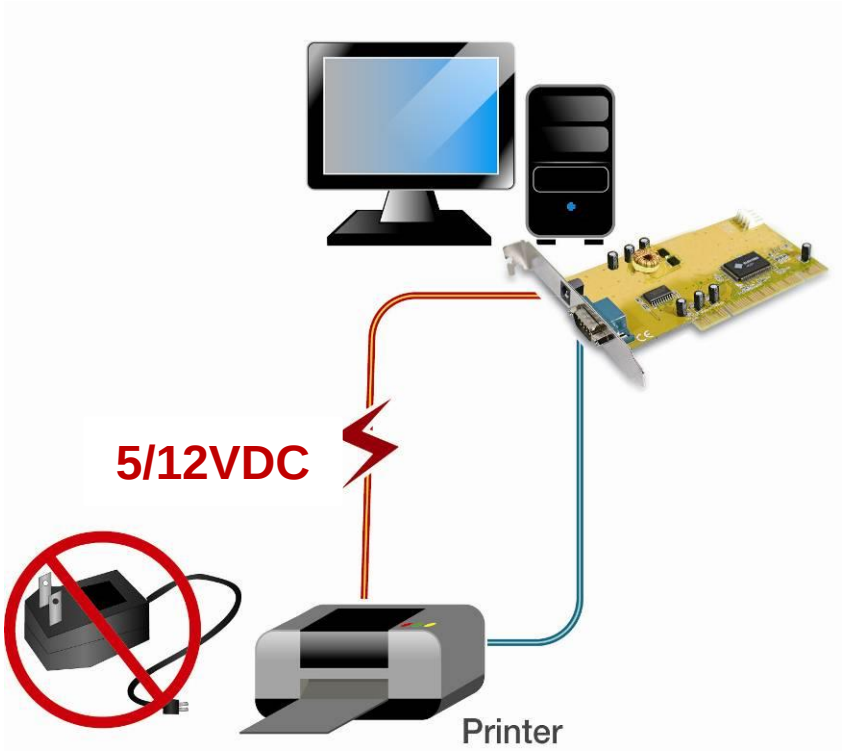
Patent Powered COM RS-232 Port

- U.S. Pat. No. 8,245,058
- China Invention Pat. No. CN101958495A
- Taiwan Invention Pat. No. I405083

Current Application



SUNIX Powered COM



DevicePort Auto-Detect & Port-Mapping

- DevicePort Auto-Detect
- COM / LPT Auto-Port Mapping

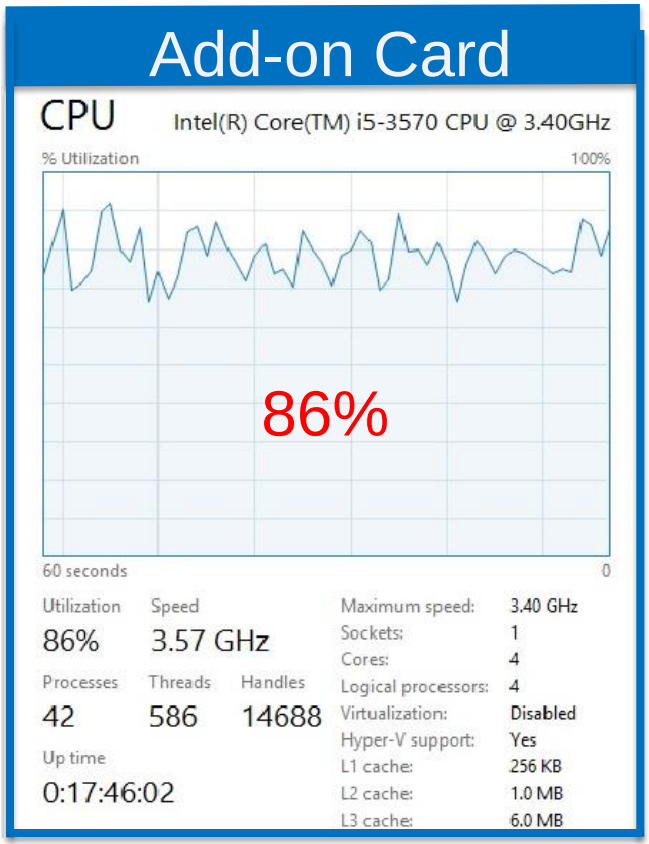
* P-n-P feature only for Dock Mode

DevicePort Save CPU Resource

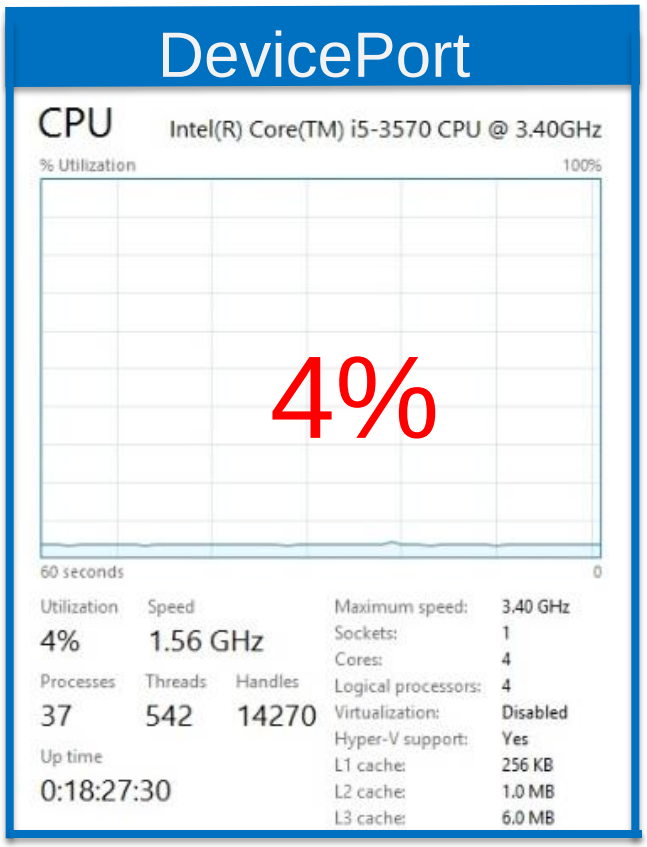
Only **5%** CPU usage when 8 COM running simultaneously

- 8 COM ports fullload burnning
- BaudRate: 921.6K / pre port
- Intel 3rd Processor with 4G DDR RAM

Add-on Card

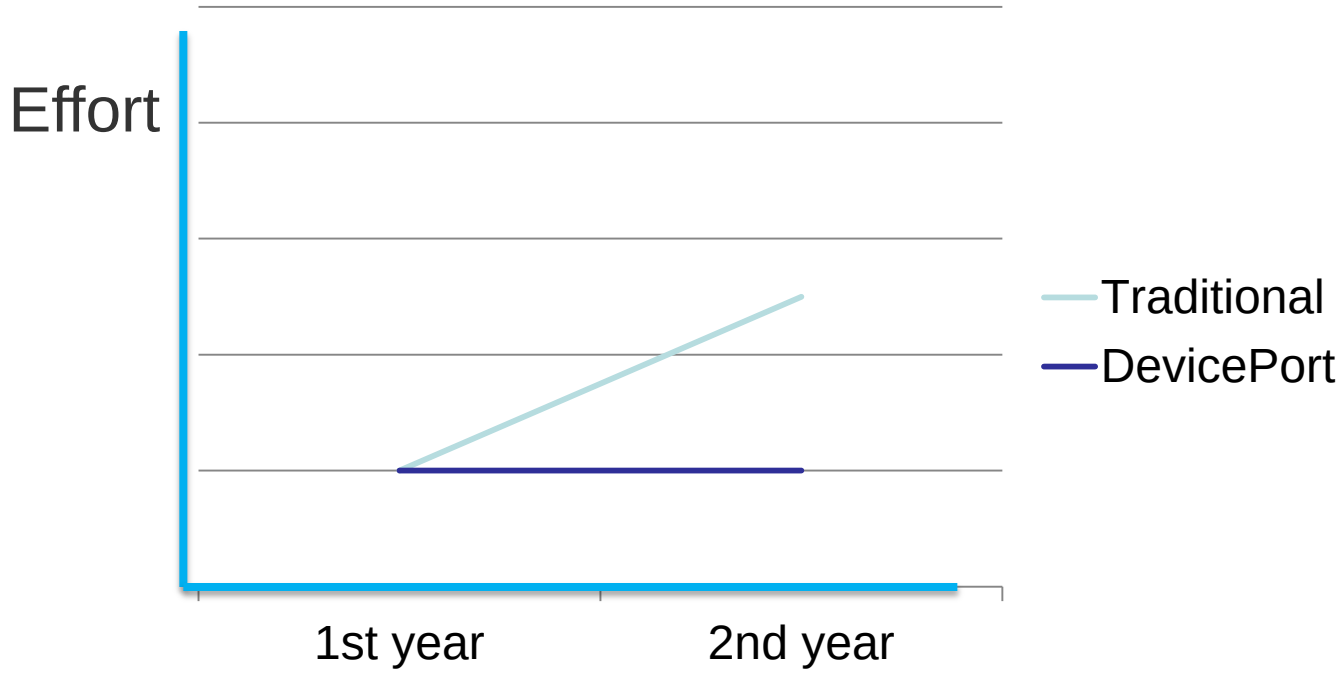


DevicePort



DevicePort Easy maintenance

SUNIX DevicePort saves maintenance effort and cost. There is no more complicated after service needs when system fail. Even non-IT members can easily deal with it.

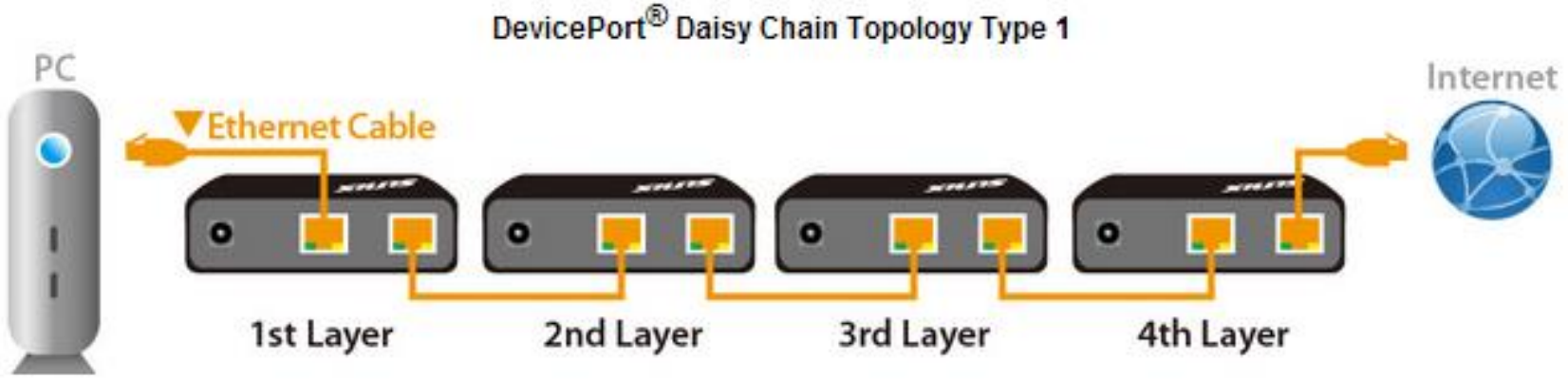


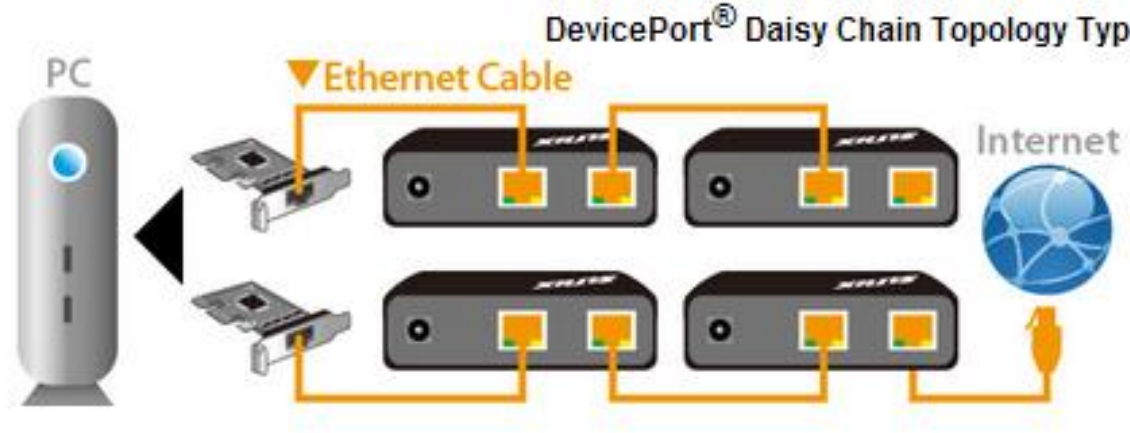
DevicePort Dock Mode

DevicePort Daisy Chain Feature

Daisy chain network topology for multiple boxes connection.

Maximum 4 boxes or 12 COM / 3 LPT ports expansion.

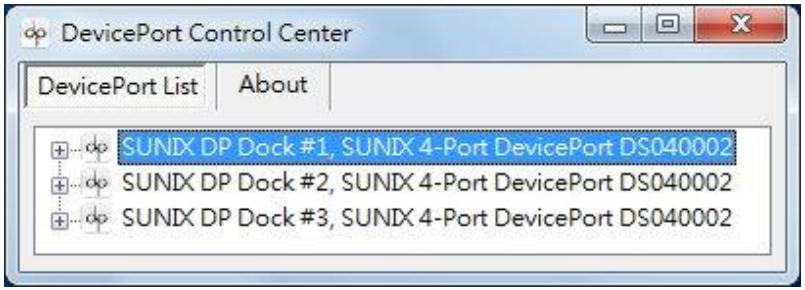


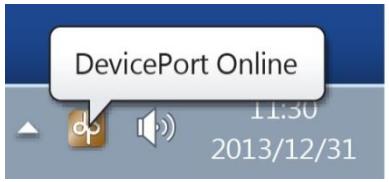


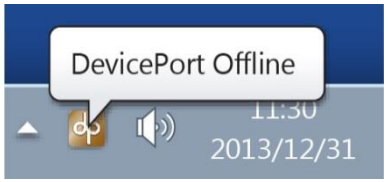
DevicePort User-Friendly Utility

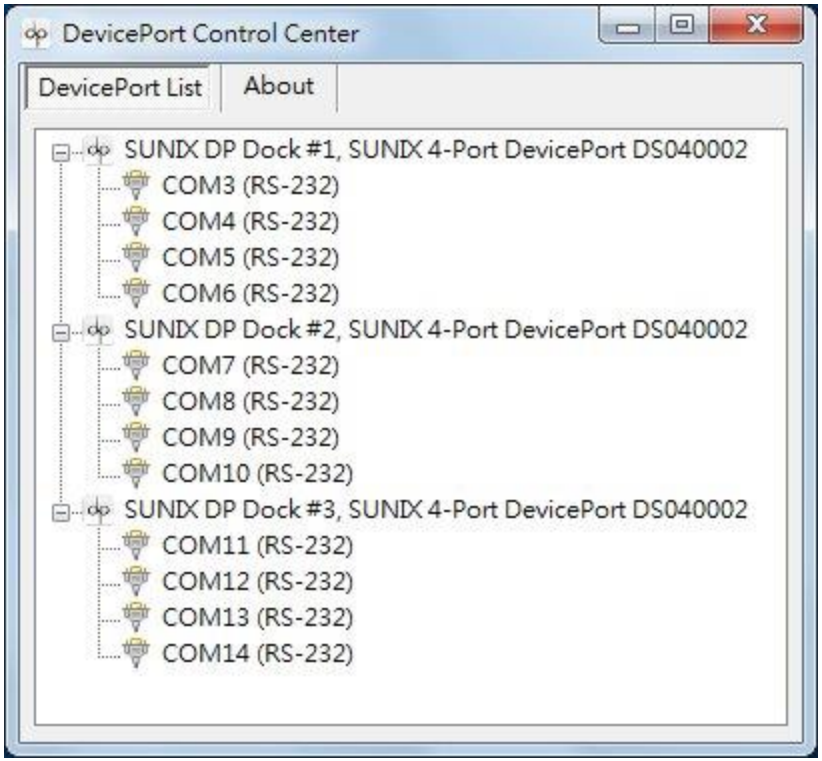
Auto-Mapping Feature

- Plug-n-Play
- Physical COM port Adopt
- Compatible existing software





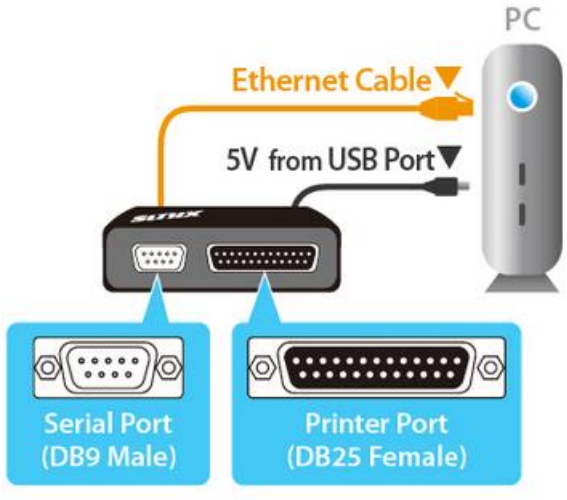




Feature of DP Advanced Mode

DevicePort Dock & Advanced Mode

Compare with DevicePort Dock & Advanced Mode Connection

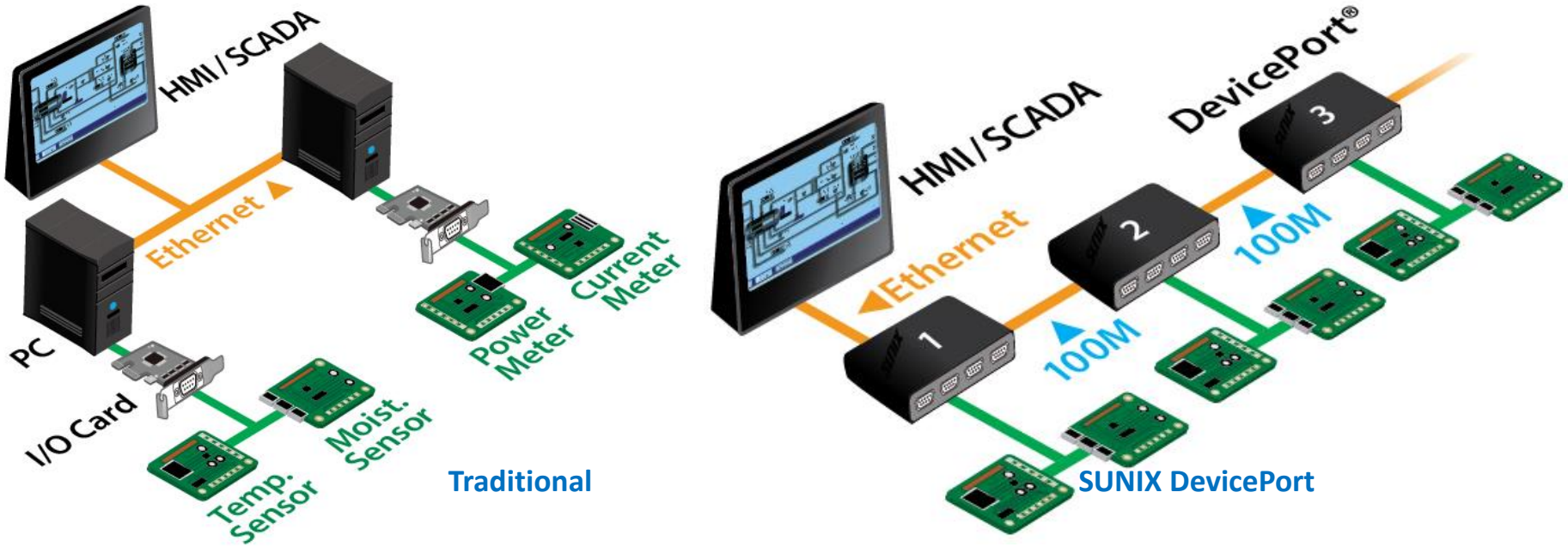


DevicePort Dock Mode
Auto-Configuration

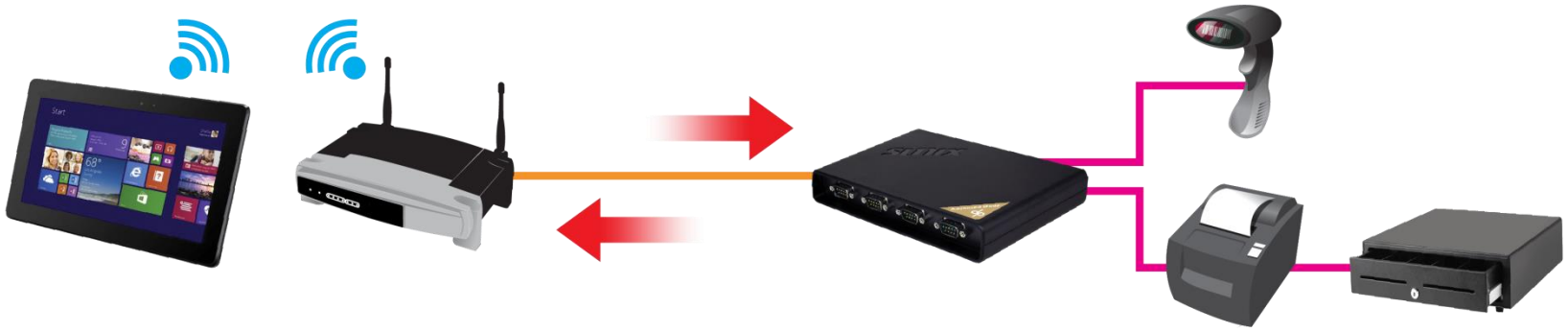
DevicePort Advanced Mode
Power-Management

DevicePort on Data Acquisition

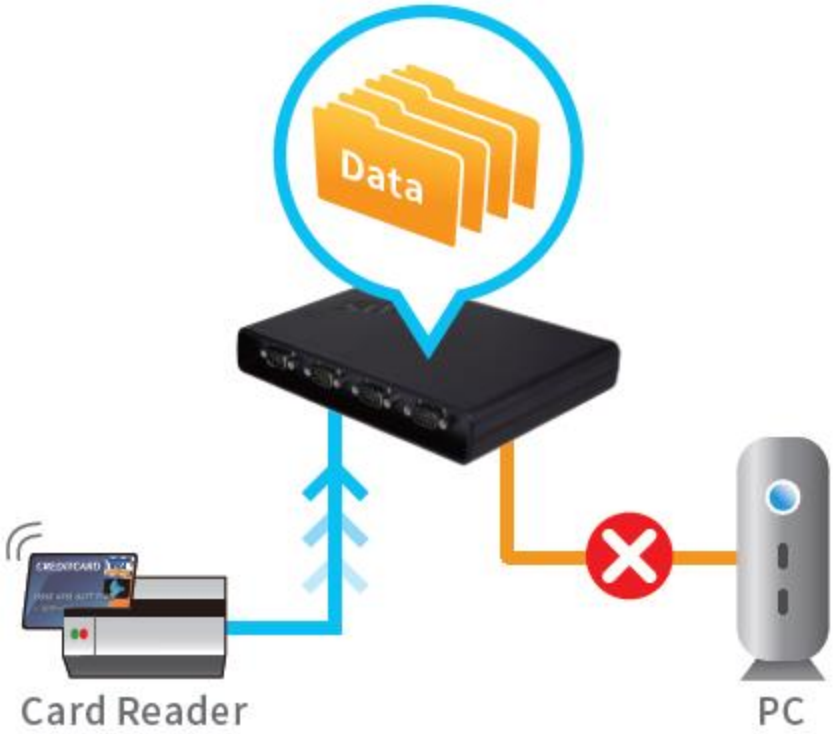
With SUNIX DevicePort, data acquisition infrastructure is from a distributed and remotely monitored system, the best approach in deploying a distributed Ethernet-based data acquisition system is to create a device link through daisy-chain topology to save implementation costs, improve deployment efficient in commercial and industrial automation applications.



DevicePort Advanced Mode Application

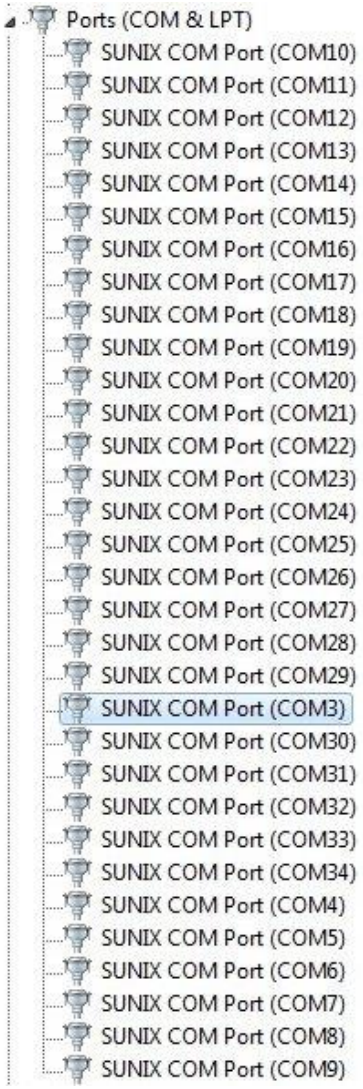


DevicePort Data Buffer



Rack Mount Type DevicePort

Up to 32-port RS-232/422/485 solution
with lower CPU usage and higher efficiency

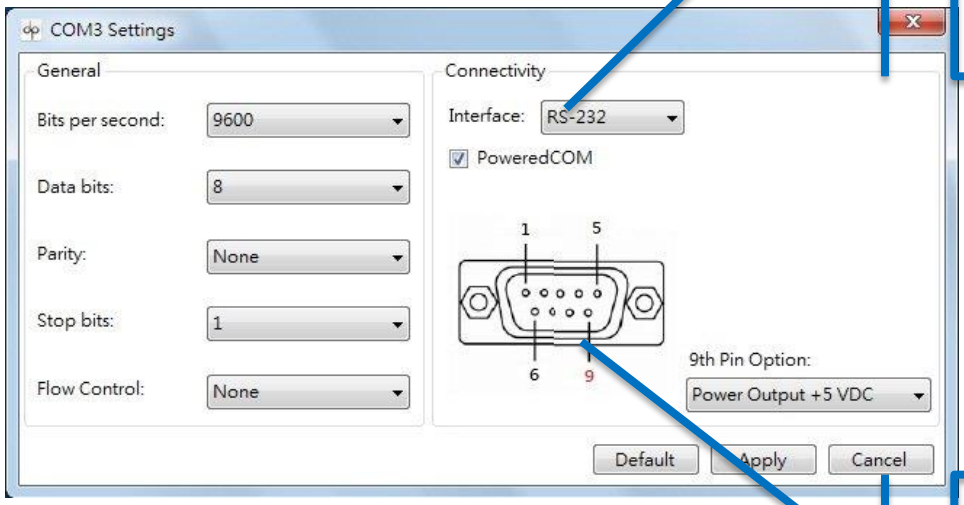


DevicePort Industrial Type Feature

Special for Harsh Environment Application

- Rock-solid & Industrial-grade
- Wall Mounting & DIN-rail Mounting
- Termination resistors – ensure the stability without distance issues
- Wide Temperature Working -10 to 70°C (13 to 167°F)
- Power of Ethernet (PoE) support
- 3-way Redundant power input 12~48VDC
- RS-232/422/485 connectivity support
- Preventing dust for level IP30

DevicePort User-Friendly Utility



User-friendly RS-232/422/485 UART
User can select RS-232, RS-422 or RS-485 interface for each COM port by software.

Brand-new Powered COM Settings
User can enable +5/12VDC Powered output feature over COM 9th pin by software.

Feature of DP Sharing Mode

DevicePort Sharing Mode Application

Enable DevicePort's connected peripheral to be shared

Share Serial/Printer devices between multiple hosts.

Support API and dll module for further customized design.

DevicePort Device sharing concept

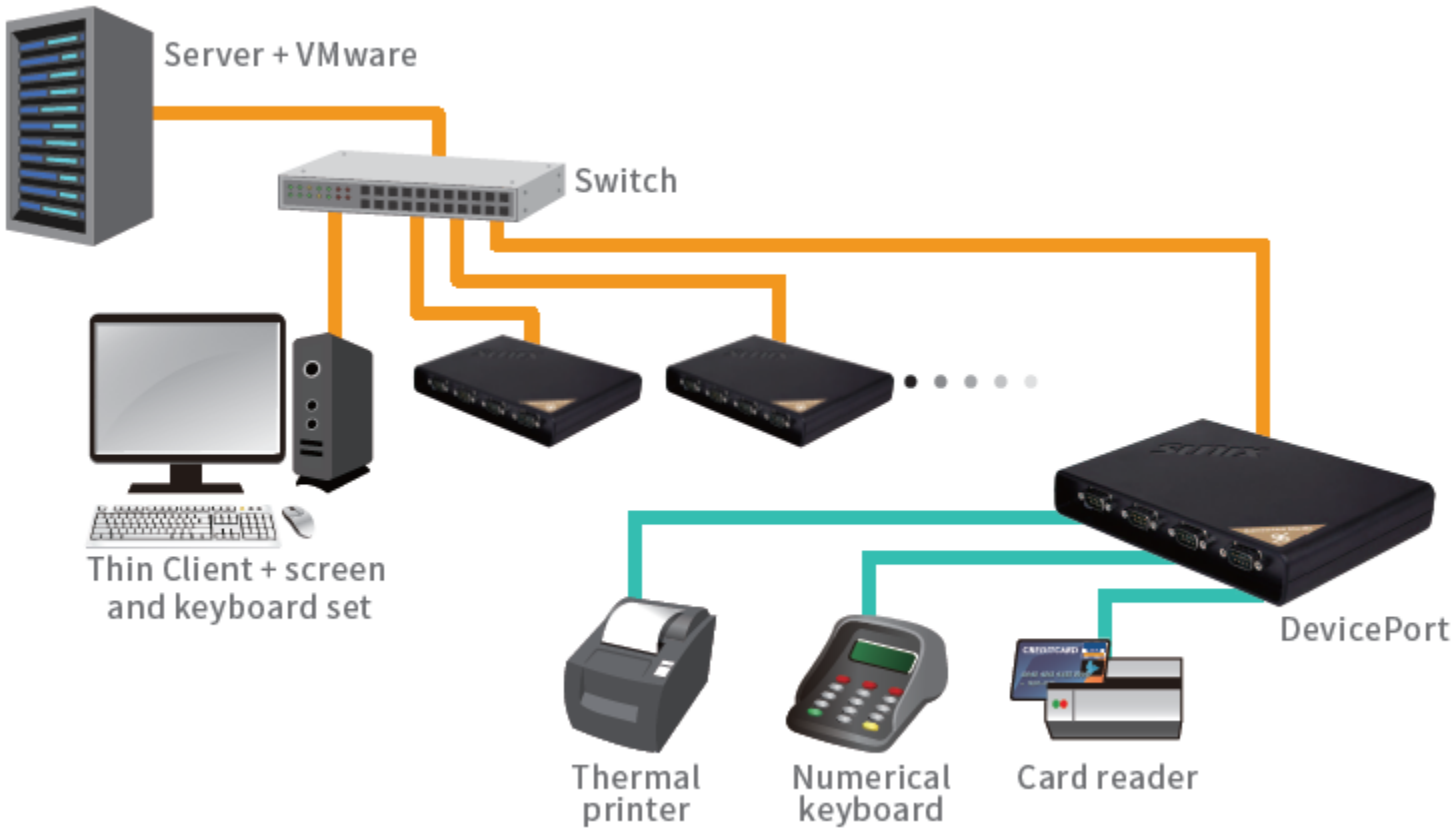
Ex: First in first out

DevicePort Support API and dll module

Support API and dll module for further customized design.

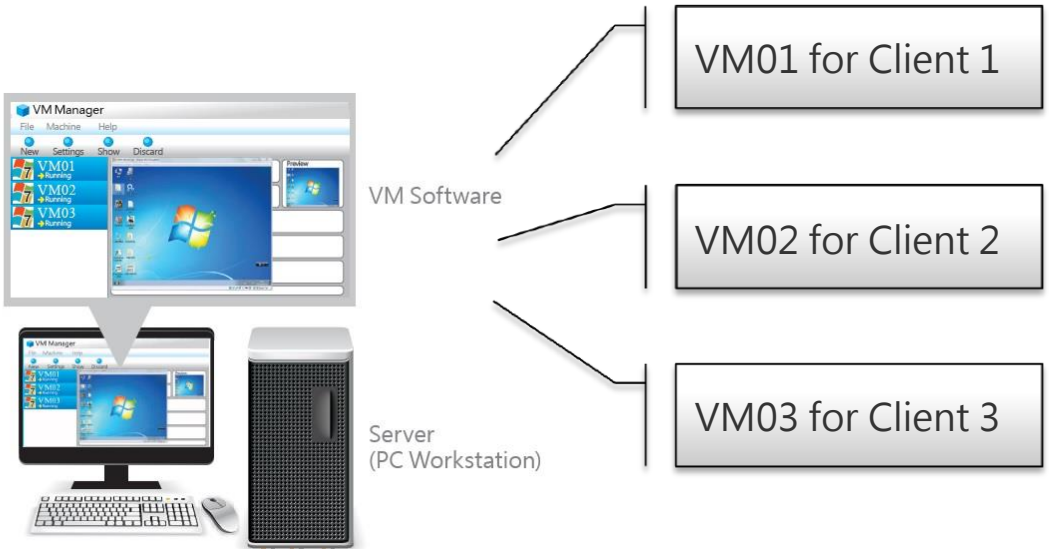
DevicePort Application

DevicePort Banking (VDI) application

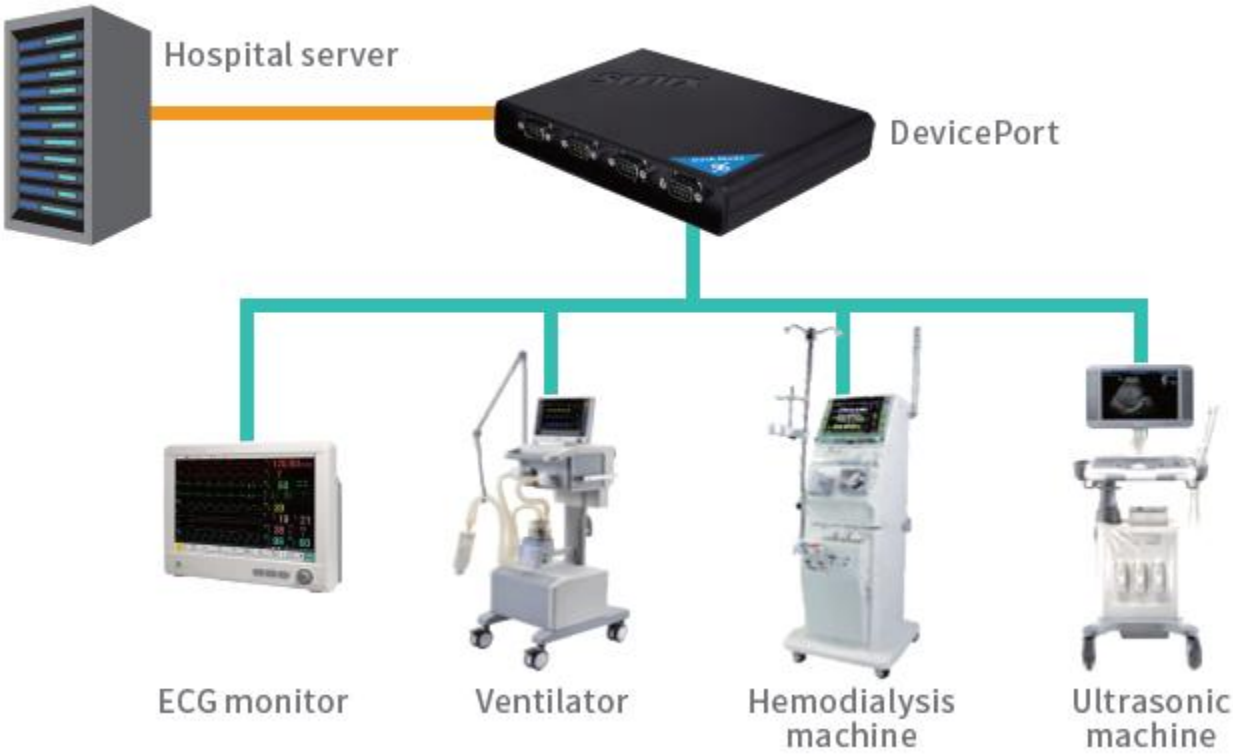


DevicePort on Retail Virtual Machine

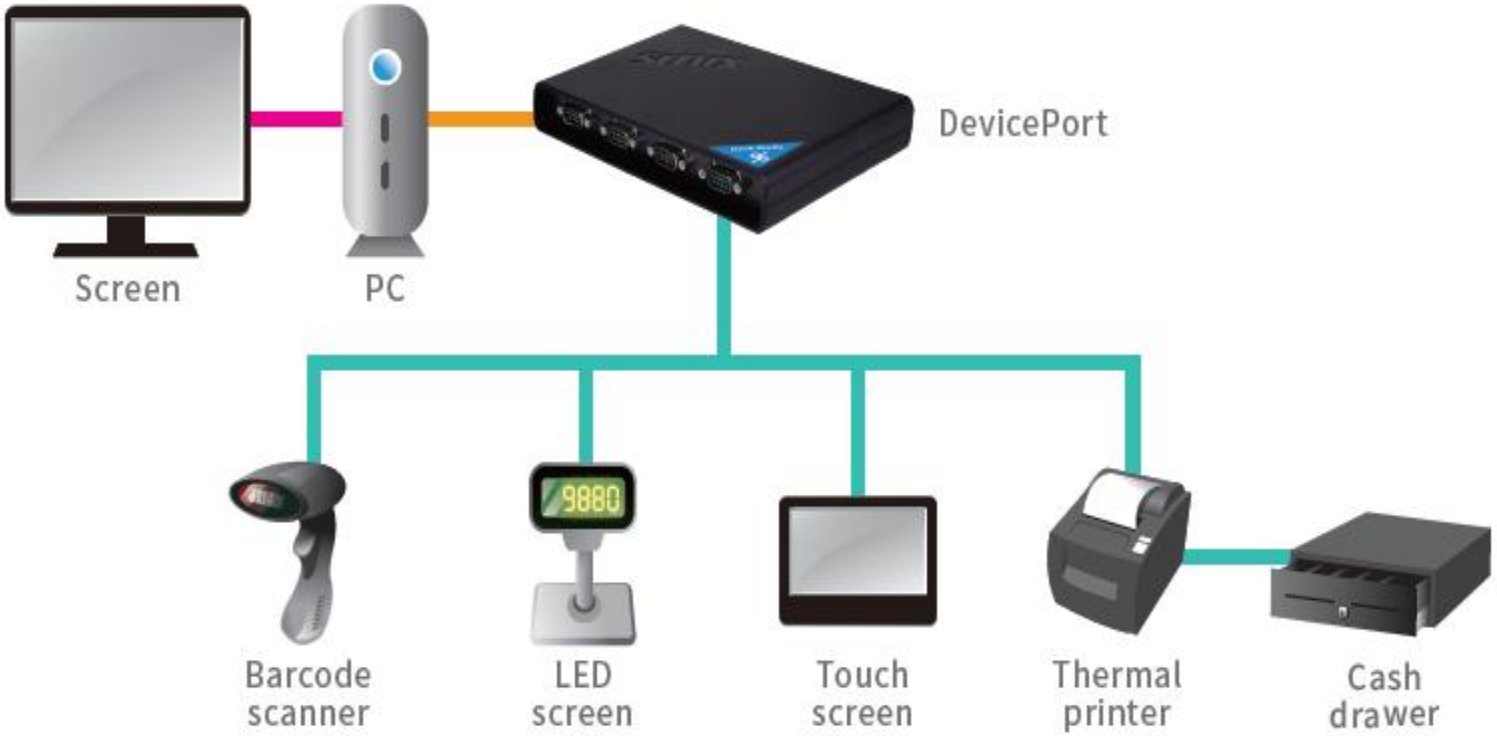
With SUNIX DevicePort, Server-Client structure is workable on retail POS application. Each POS (cash register) computer will be replaced by ThinClient with Virtual Desktop Infrastructure . It's easy for administer to reduce maintenance costs and centralize management.



DevicePort Health care application



DevicePort Retail application



DevicePort Restaurant application

Thank you