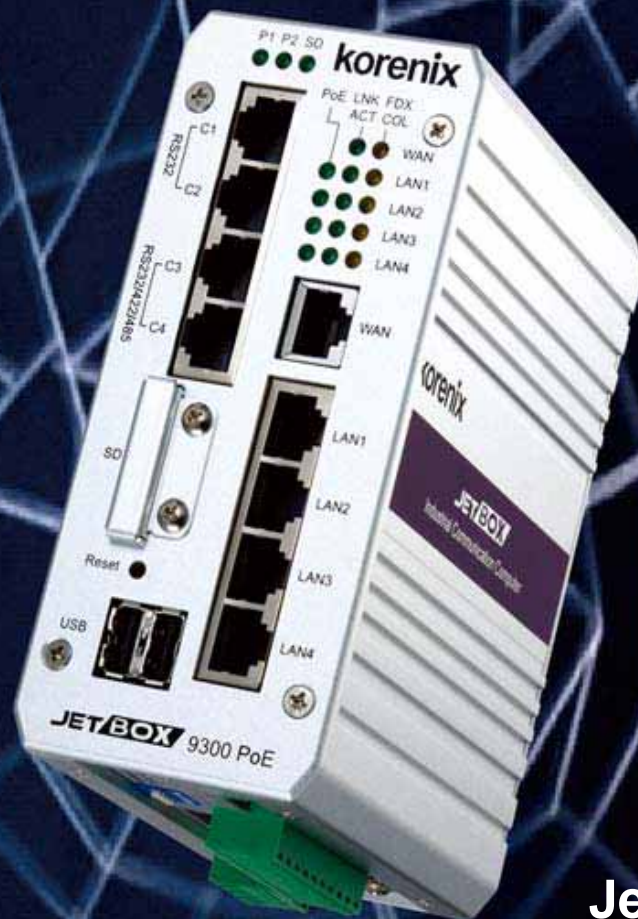


# 荣获专利的五合一工业级PoE路由网管计算机



JetBox 9310

**Industrial PoE Networking Computer**

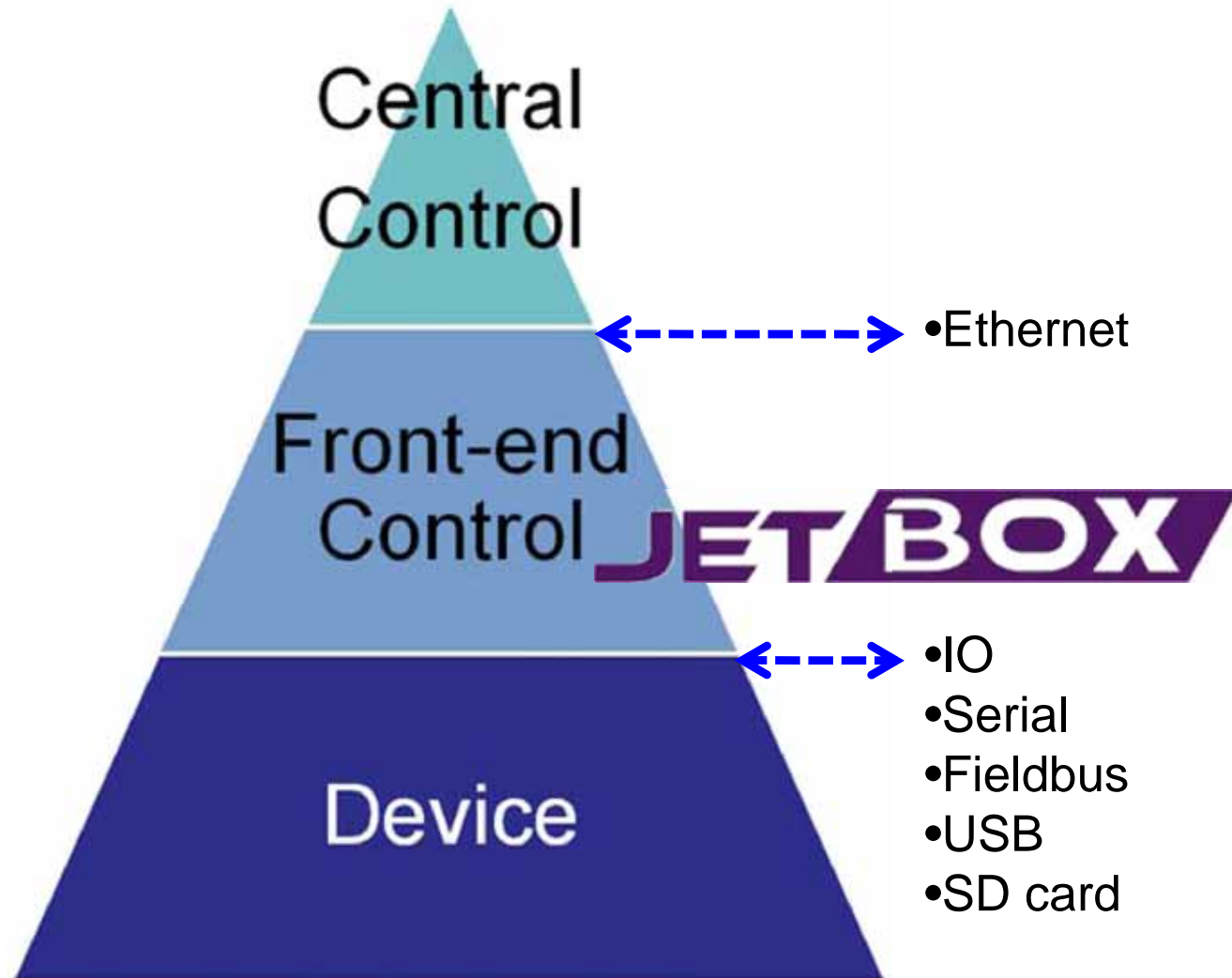
# Outline

- **Product features**
- **Innovation**
- **Marketability**
- **Technicality**



# Industrial Control & Monitoring

- Product Feature
- Innovation
- Marketability
- Technicality



# JetBox 9300 HW



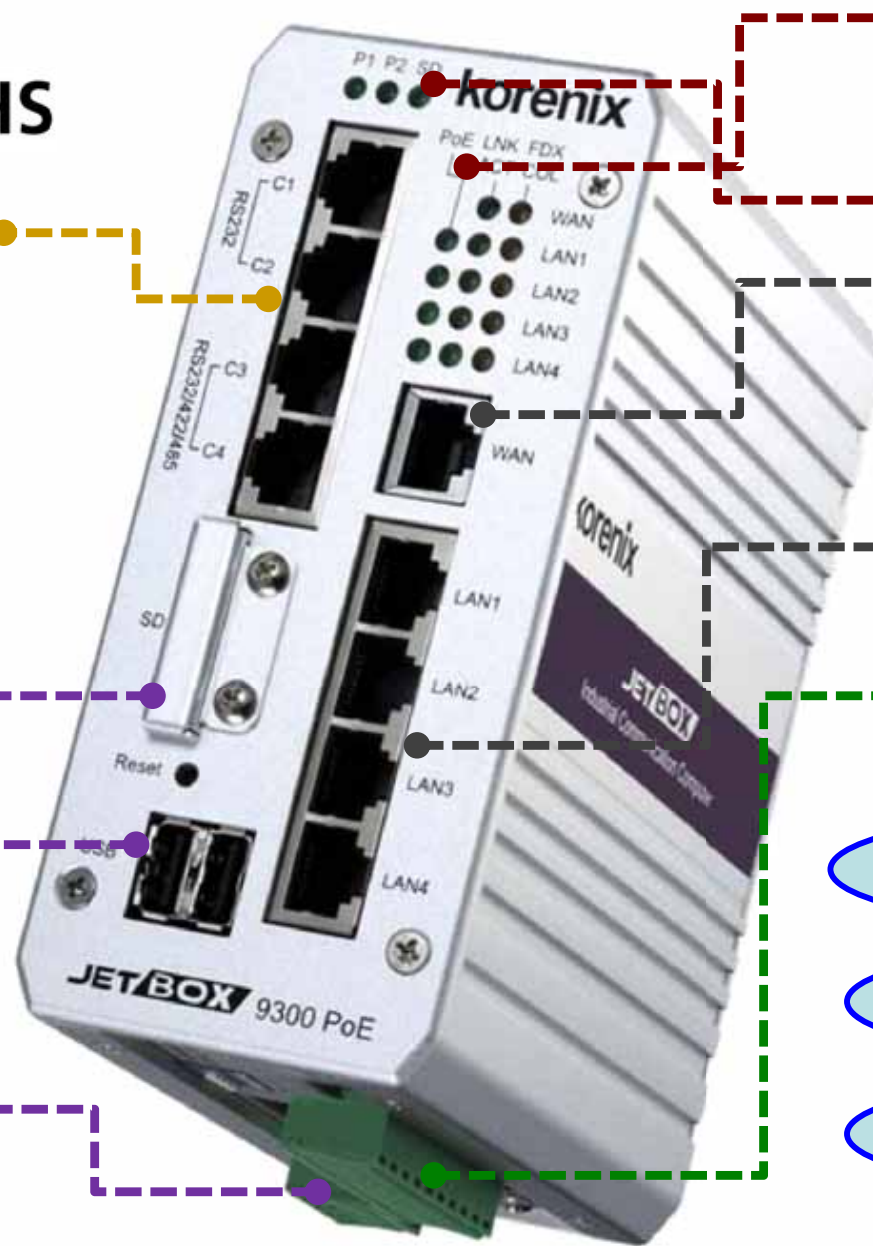
COM (RJ45 connector)  
•RS232 x2  
•RS232/422/485 x2

**RISC CPU**  
•64MB SDRAM  
•16MB Flash (system)

SD slot

USB 2.0 x2

12~48 (-48)VDC  
Dual power inputs  
48V only for PoE



Indicator  
•WAN/LAN  
•PoE  
•Power, SD

WAN x1  
WAN/LAN  
Setting by SW

LAN x4  
(PoE)

4DI/ 4DO

-40 ~ 80°C

5g anti-vibration

50g anti-shock

# JetBox 9300 SW Linux

## Serial ports

- Virtual COM
- TCP server/ Client
- UDP

## Computing

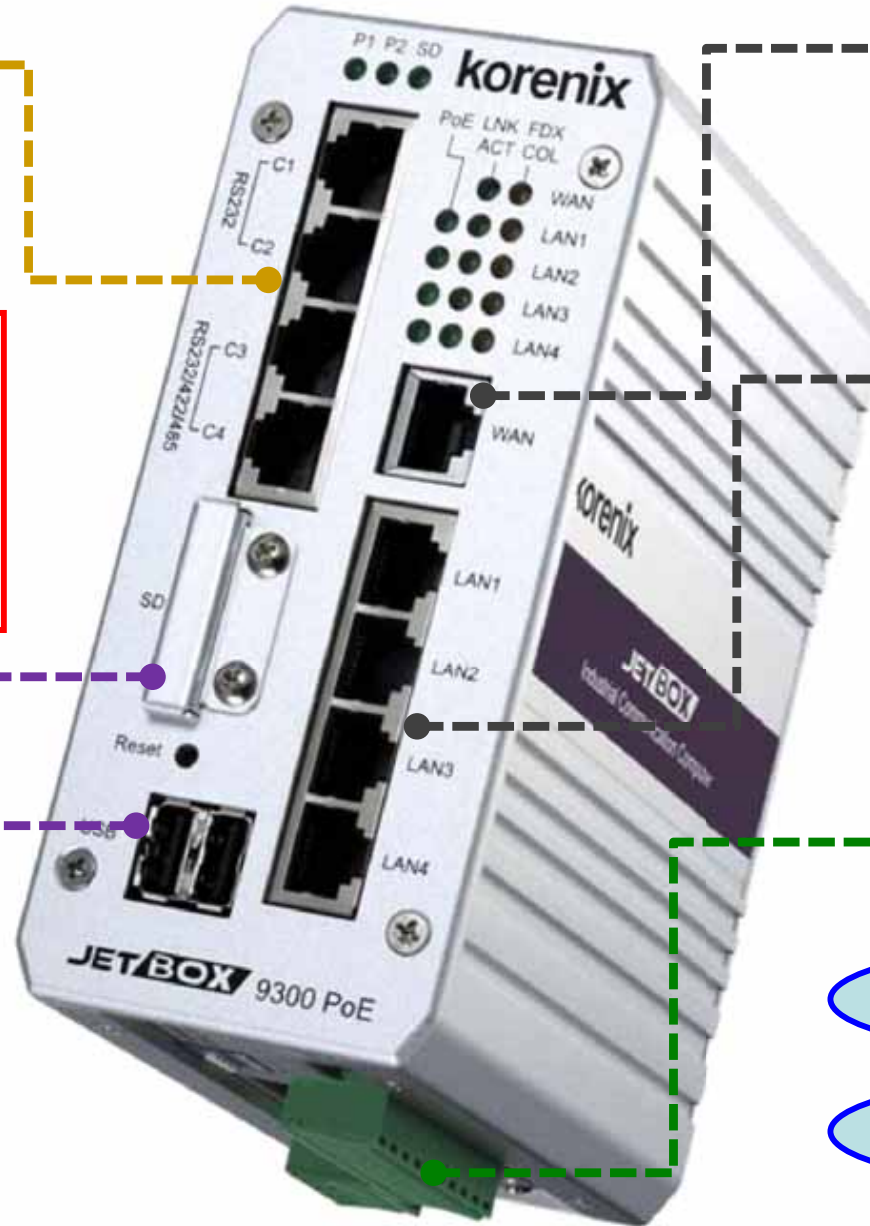
- Drivers
- Watchdog timer
- Warning/ Event log
- Programmable

## SD slot

- Data backup
- System upgrade
- Auto run
- Customized application

## USB 2.0

- Storage
- Wireless dongle



## WAN x1

- DHCP client
- PPPoE
- NAT/ DMZ
- IP routed/ Static routing

## LAN

- VLAN
- QoS
- DHCP server
- IP security

## PoE

- Manage & Scheduling

## DIO

- Managed & Scheduling

Linux 2.6.21

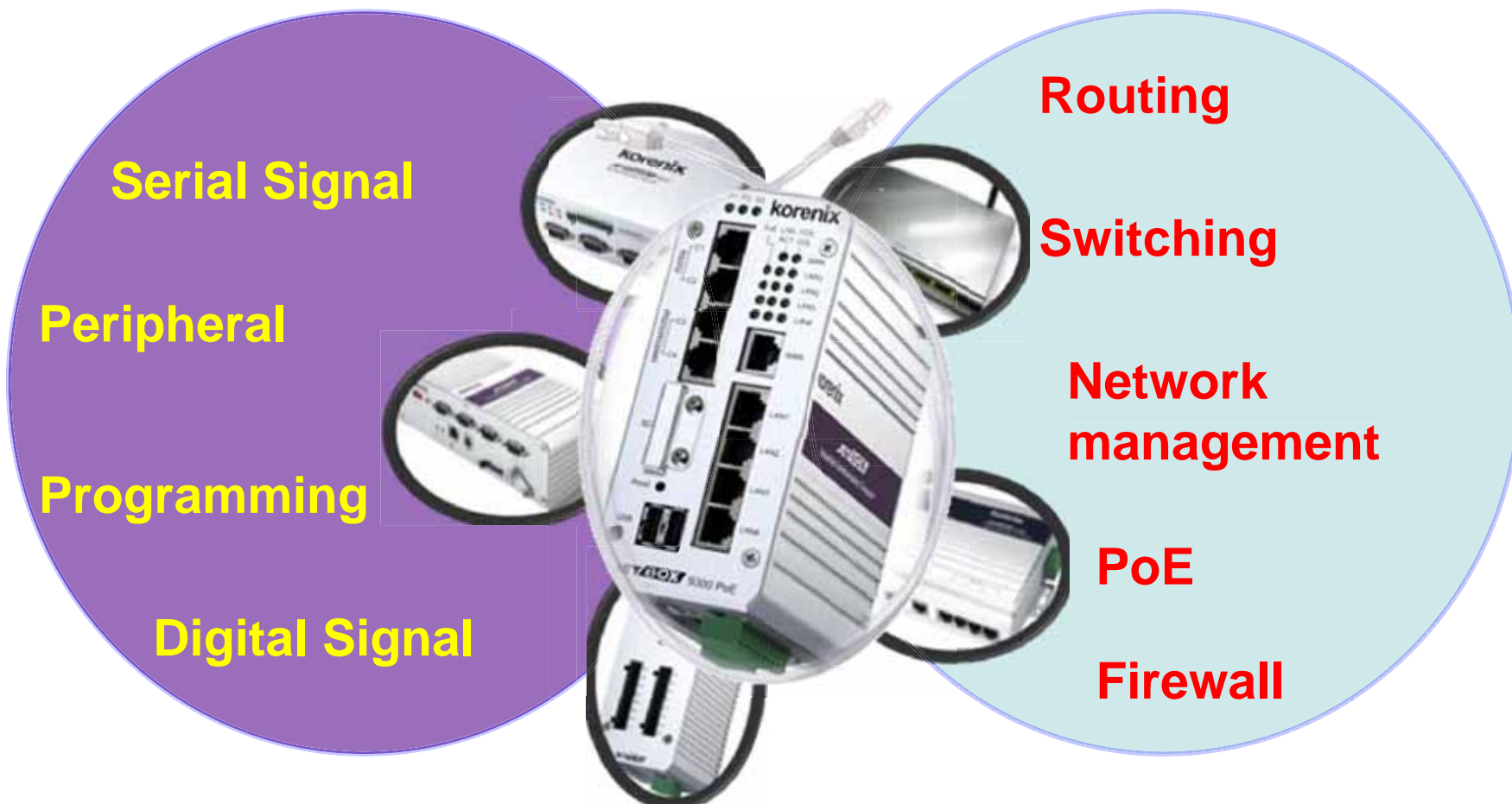
SNMP control

# Two Worlds

## Computing

## Networking

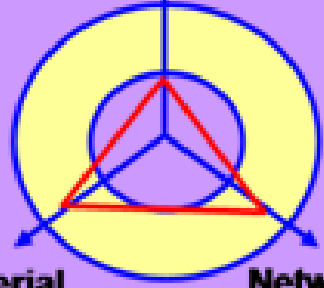
- Product Feature
- Innovation
- Marketability
- Technicality



# Functional Integration in Linux



# Competitor Analysis

JetBox 9300: Networking, serial communication & computing integrated			TWN Korenix	TWN Advantech	Sweden Westermo	USA GarrettCom
			JetBox9300	ARK-1351	DR-200	DX800 -01-L-P
			Industrial PoE Networking Computer	Industrial Computer	ADSL Routing Switch	Serial Routing
Data transmission and control	Network 10/100 Base T	★	4	2	4	2
	100FX SFP/SFF					2
	WAN	★	1		1(ADSL)	
	Management switch	★	•		•	
	Router	★	•		•	•
Serial & DIO control for devices	Serial RS232		2	2	1 (DB25)	--
	RS232/422/485	★	2	--		4 (RS232/485)
	DIO	★	4DI,4DO	--		--
Major interfaces	USB2.0	★	2	2 (USB1.0)		
	Card interface		SD	CF PCMCIA		

# Target Market—Monitoring

Product  
Feature

Innovation

**Marketability**

Technicality

## Customers' requirements

- Used in severe environment
- Remote network management & warning
- Compact size & high P/P ratio



Transportation  
Monitoring

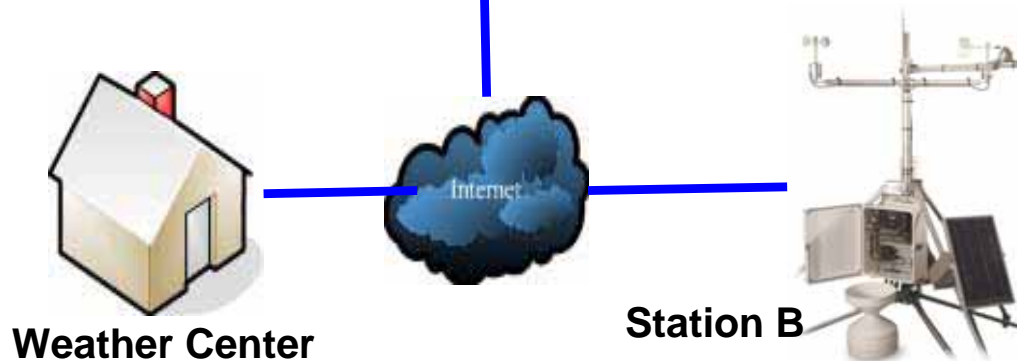
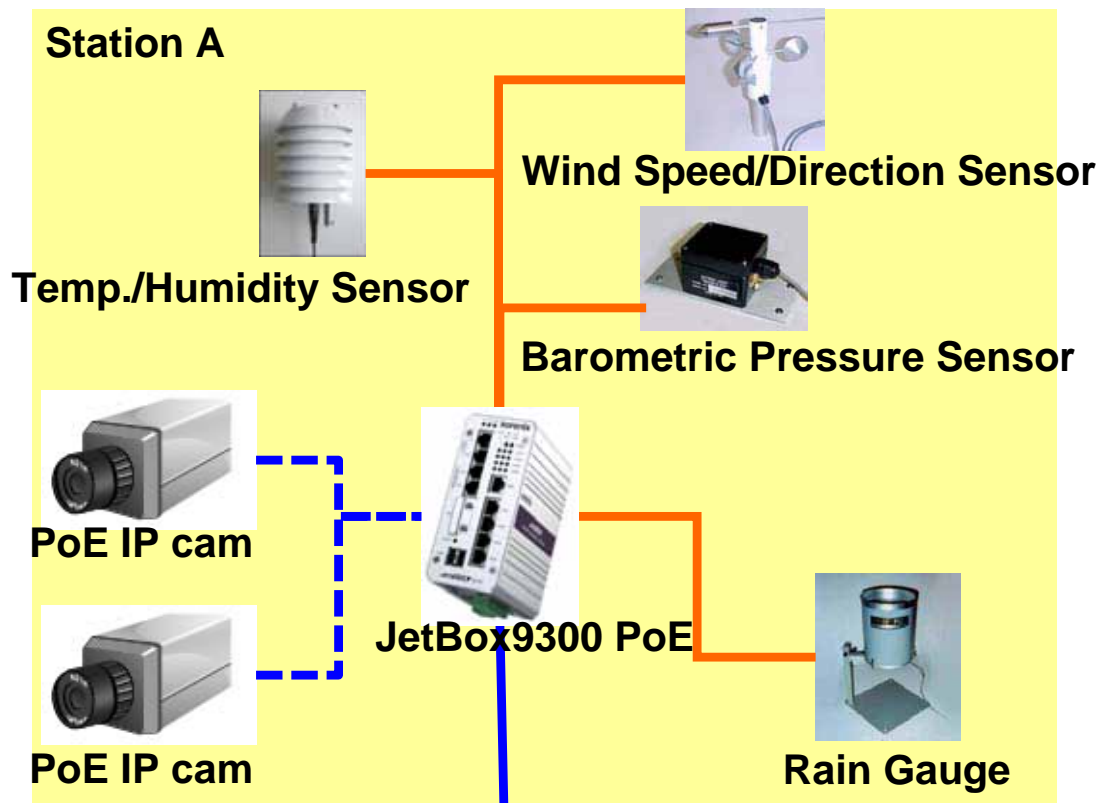


Environment  
Monitoring



Mining  
Monitoring

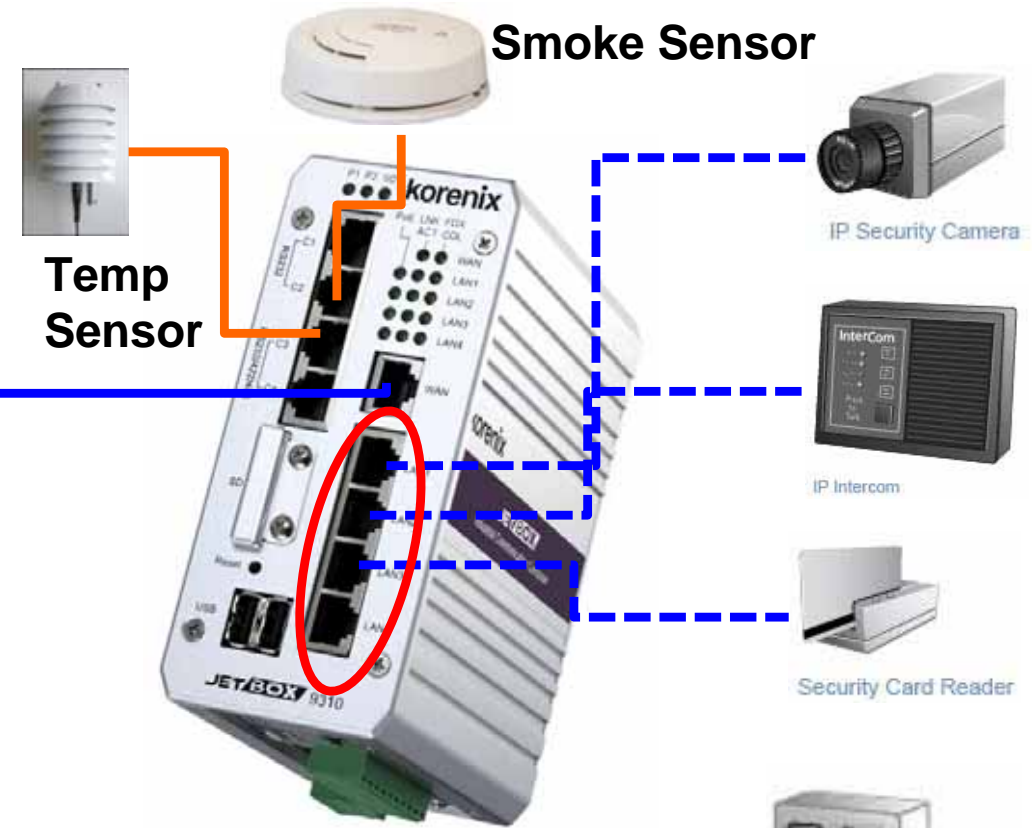
# Weather Station



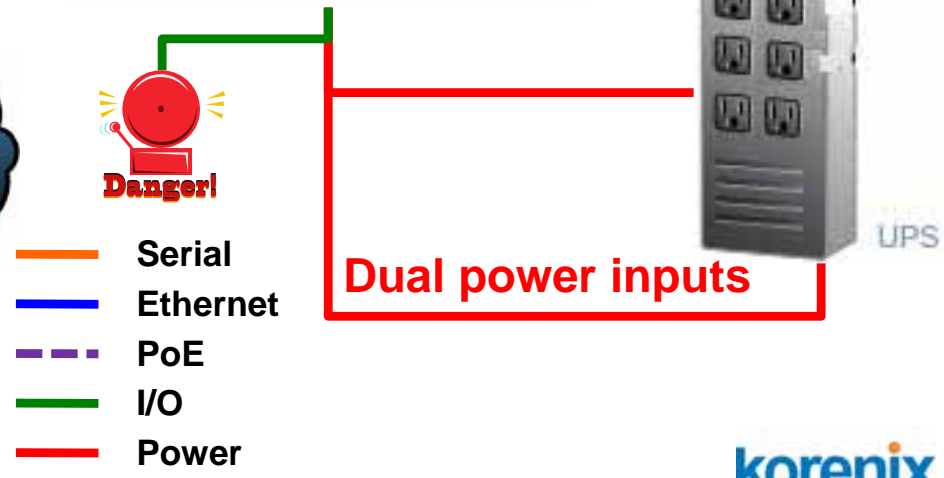
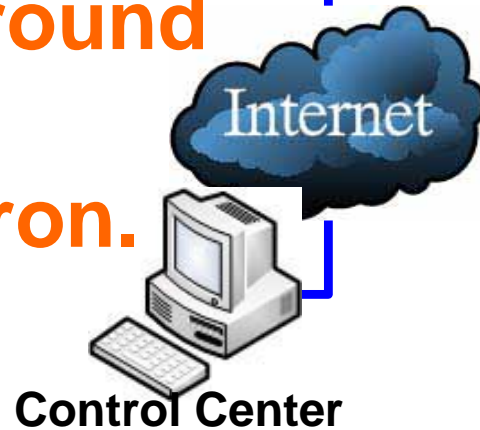
- ◆ Wide working temp. -40~80°C
- ◆ Routing capability

- Serial
- Ethernet
- - - PoE
- I/O

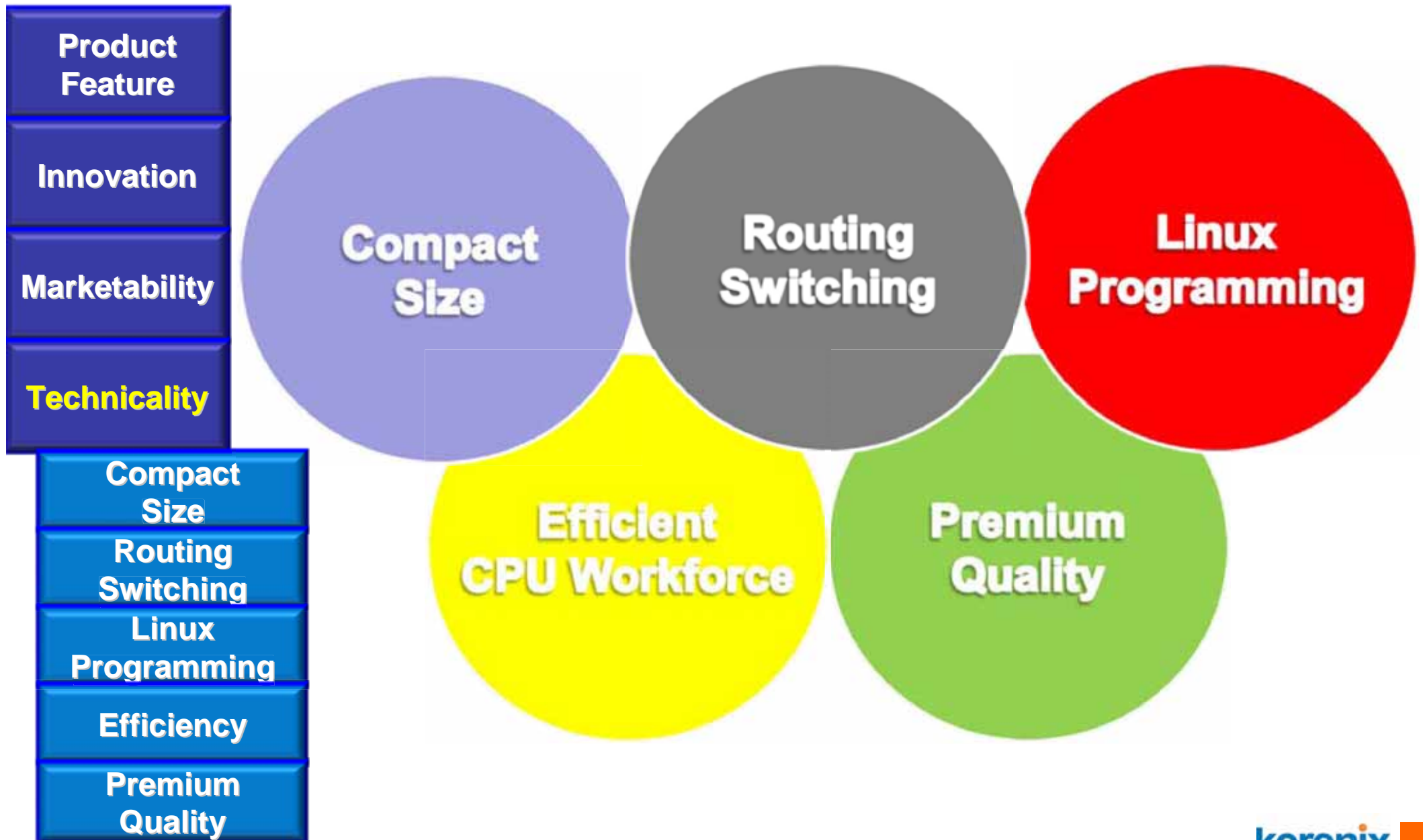
# Platinum Mining



- ◆ 300m under ground
- ◆ High heat
- ◆ Vibrating environ.



# Five Successful factors



# Compact Size for Control Box

Product  
Feature

Innovation

Marketability

Technicality

Compact  
Size

Routing  
Switching

Linux  
Programming

Efficiency

Premium  
Quality

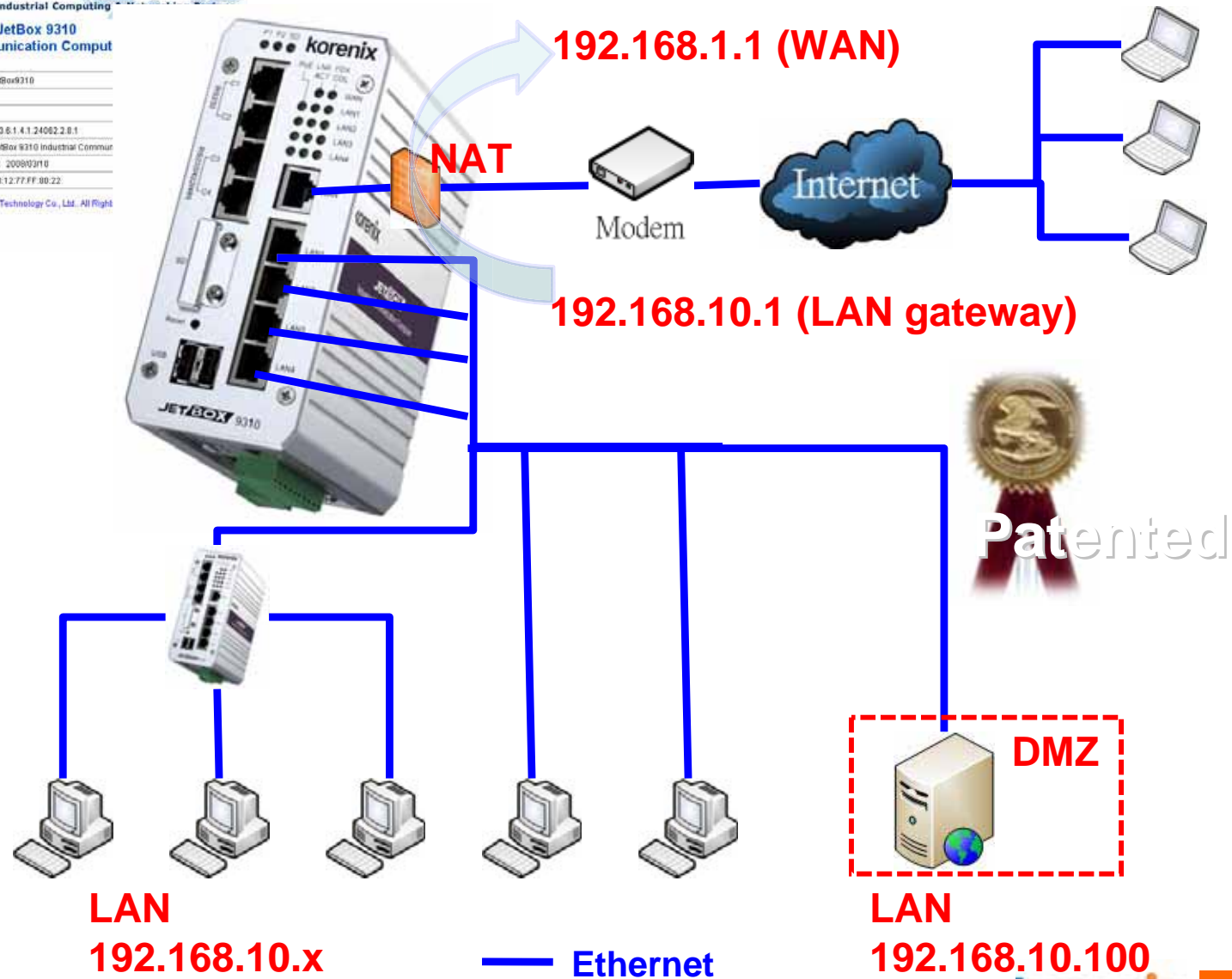


**Compact DIN rail type!!**  
**Suitable for control box setting!!**

# Routing & Switching

- Product Feature
- Innovation
- Marketability
- Technicality

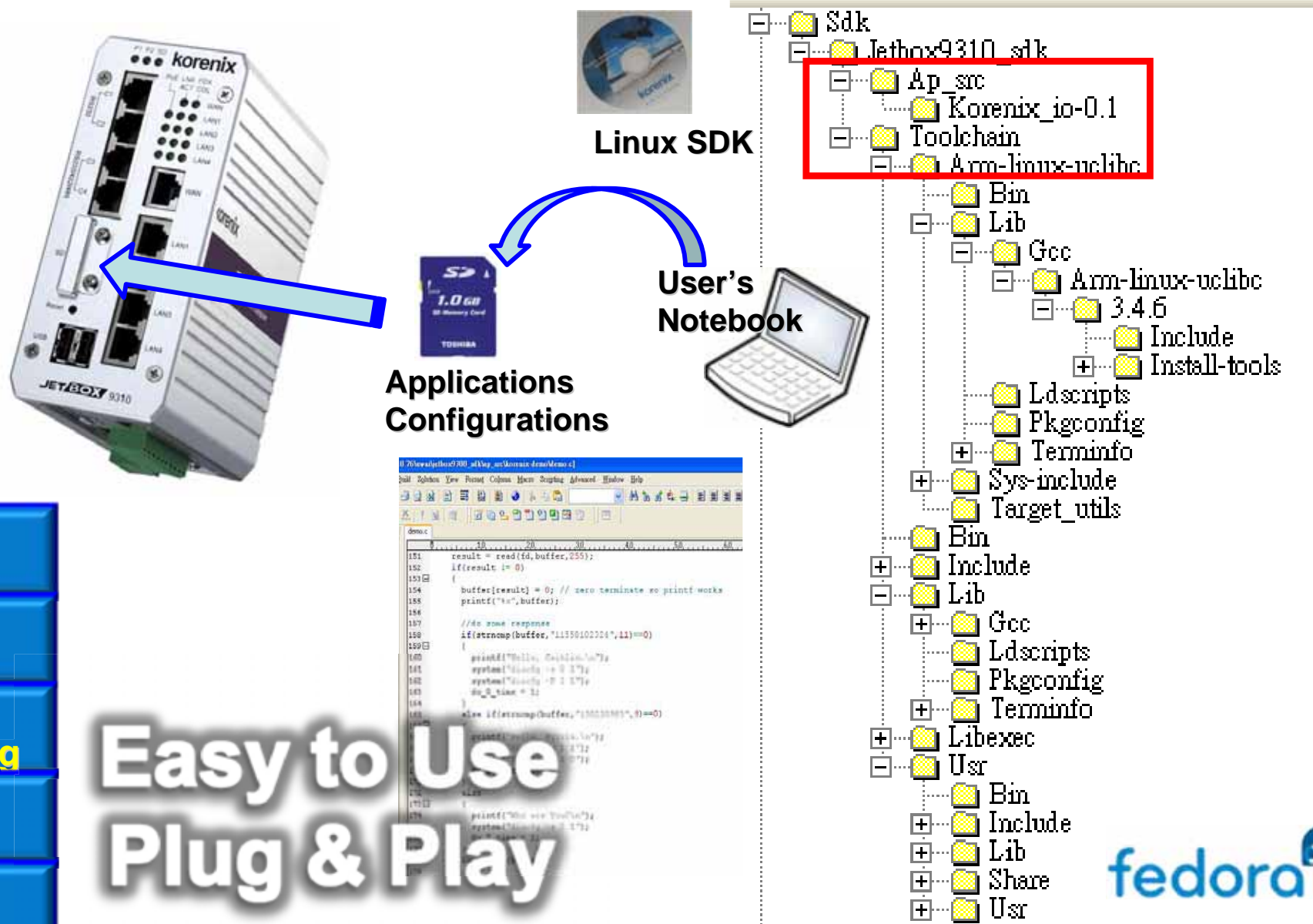
- Compact Size
- Routing Switching
- Linux Programming
- Efficiency
- Premium Quality



# Linux Programming

- Product Feature
- Innovation
- Marketability
- Technicality

- Compact Size
- Routing Switching
- Linux Programming
- Efficiency
- Premium Quality



**Easy to Use  
Plug & Play**

# Efficiency

- Product Feature
- Innovation
- Marketability
- Technicality
- Compact Size
- Routing Switching
- Linux Programming
- Efficiency**
- Premium Quality

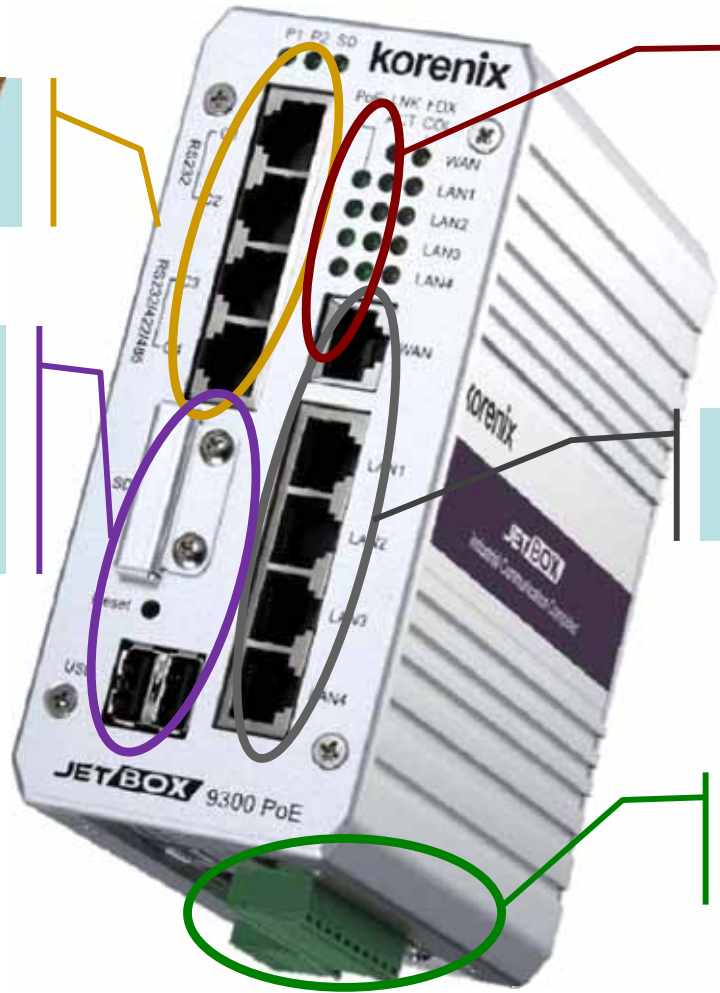
**JETPORT**  
Device Server

**JETBOX**  
Industrial Communication Computer

**JETPOE**  
PoE switch

**JETNET** plus  
Switching plus Routing

**JETIO**  
Digital input/output



**RISC CPU, low power consumption  
Compatibility and Best Performance**

# Premium Quality

Product Feature

Innovation

Marketability

Technicality

Compact Size

Routing Switching

Linux Programming

Efficiency

Premium Quality

## IP31

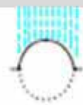
IP 31

3 Protection from hard objects



Protection from fixed objects that are bigger than 2.5mm (e.g. tools/cables)

1 Protection from liquids



Protection from vertically falling water droplets (condensation)

➡ **-40~80°C**

**wide temp.**

➡ **50g anti-shock**

➡ **5g anti-vibration**

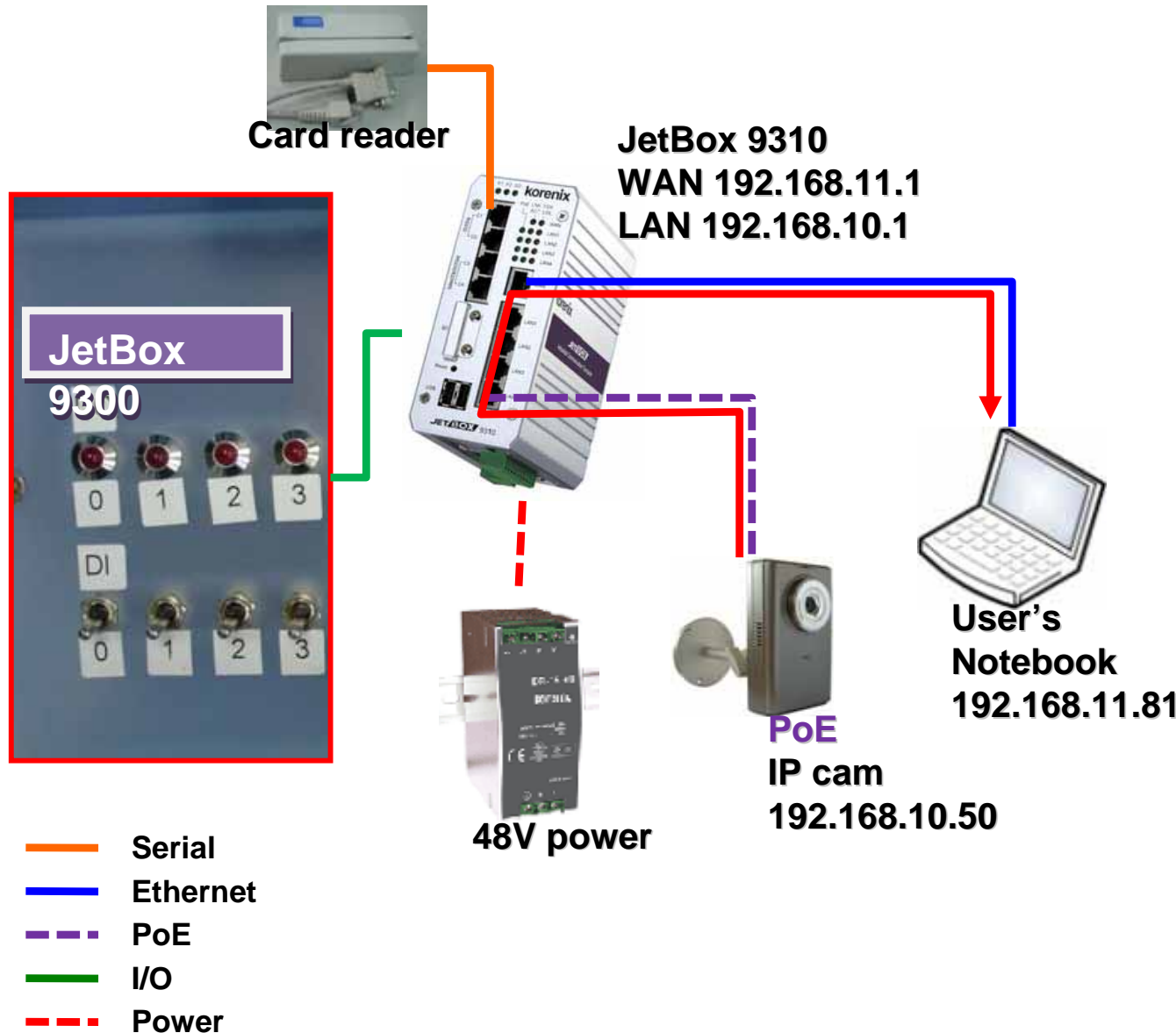


Alaska weather monitoring



Deep mining monitoring

# Demonstration



Demo:

- (1) PoE
- (2) Routing
- (3) DIO control in Web UI
- (4) Card reader

