



KSH International Co., Ltd.

Network & Wireless Solution For Serial, USB, Analog & Digital I/O

- Industrial Gateway
- IoT Gateway
- Embedded Controller
- Raspberry Pi Built-in Controller
- Modbus Gateway
- Ethernet Switch / PoE
- Wireless Lan 802.11 b/g/n
- Bluetooth / 3G
- RS-232/ 422/ 485
- USB
- Digital I/O
- Analog I/O
- Fiber
- Intercom
- LoRa



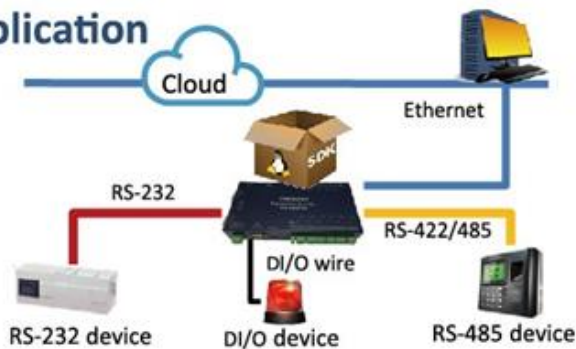
www.tcpipweb.com



Features

- SDK for software development
- USB / Micro SD slot for storage
- Built in RTC / Buzzer
- Built in 15KV ESD protection for signals
- Web Browser configuration

Application



1 Port

WPC-132-RTC



RS - 232/422/485 x 1

2 Ports/Ethernet+WiFi

WPC-832



RS - 232/422/485 x 2

2 Ports

WPC-232



RS - 232 x 1
RS - 422/485 x 1

4 Ports +DIO+AI

WPC-632-3-DIO-AI



8 DI / 4 DO / 4 AI
RS - 232 x 2, RS-422/485 x 2

4 Ports

WPC-332



RS - 232 x 3
RS - 422/485 x 1

4 Ports

WPC-832-4



RS - 232/422/485 x 4

1 Port

WPC-132-RTC-T



UART x 1

8 Ports

WPC-732-3-8



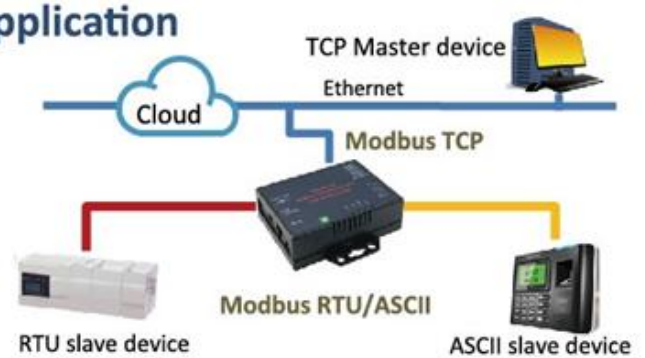
RS - 232/422/485 x 8



Features

- Support Modbus TCP to Modbus RTU/ASCII
- 4 Modbus modes Browser selectable
- Support 8 TCP Masters simultaneously requests
- Modbus RTU Master Connecting up to 32 RTU Slave

Application



1 Port/S to Ethernet

WPC-232-Modbus



RS - 232/422/485

2 Ports/S to Ethernet

E-P732-X-Modbus



RS - 232 x 1
RS - 422/485 x 1

1 Port/S to WiFi

E-P132-WB-Modbus



RS - 232/422/485

2 Ports/Ethernet + WiFi

WPC-832-Modbus



RS - 232/422/485 x 2

4 Ports -Isolation

WPC-832-4-Modbus



RS - 232/422/485 x 4

8 Ports -Isolation

WPC-732-3-8-Modbus



RS - 232/422/485 x 8

WiFi to DIO

E-P132-WB-DIO-Modbus



2 DI / 4 DO
http command

Analog Input

AI-140-Modbus



RS - 485 x 1
Analog Input x 4

Serial to Ethernet



Features

- Multi Ports Serial interfaces
- Operation Modes : TCP server; TCP client; UDP; Virtual COM; Pairing
- Built in 15KV ESD protection for signals
- Web Browser configuration
- Easy installation Windows utility

Application



2 Ports E-P532



RS - 232 x 1
RS - 422/485 x 1

2 Ports E-P732-X



RS - 232 x 1
RS - 422/485 x 1

2 Ports+WiFi WPC-832



RS - 232/422/485 x 2

2 Ports+PoE E-P732-X-PoE



RS - 232 x 1
RS - 422/485 x 1

4 Ports E-P432



RS - 232 x 2
RS - 232/422/485 x 2

2 Ports+DIO E-P732-X-DIO



RS - 232 x 1
RS - 422/485 x 1, DI x 8 DO x 3

4 Ports Isolation WPC-832-4



RS - 232/422/485 x 4

8 Ports Isolation WPC-732-3-8



RS - 232/422/485 x 8

Serial to WiFi



Features

- Supports 802.11b/g/n (by WiFi model)
- Operation Modes : TCP server; TCP client; UDP; Virtual COM; Serial Tunnel
- Built in 15KV ESD protection for signals
- Web Browser Configuration
- Easy Wireless setup by Mobile Phone, PAD

Application



1 Port E-P132-WB



RS - 232/422/485 x 1

2 Ports WPC-832



RS - 232/422/485 x 2

WiFi to DIO E-P132-WB-DIO



2 DI / 4 DO
http command

S to WiFi TTL Module E-P132-WB-T



UART x 1
802.11 b/ g/ n

Serial to Bluetooth

Features

- Support Bluetooth 2.1
- Built in 15KV ESD protection for signals
- Easy setup Windows utility

Application



1 Port / S to BT E-P132-B1



RS - 232

1 Port / S to BT BS-101-I



3KV DC Isolation
RS - 232/422/485

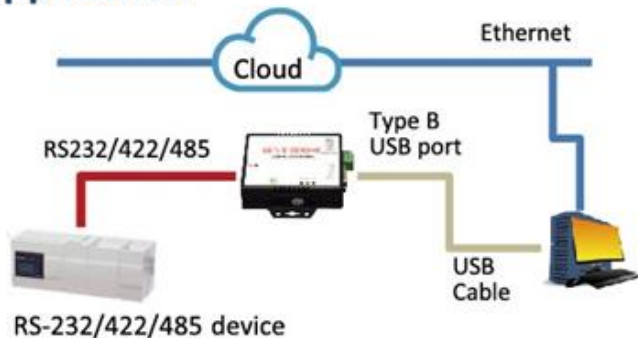
USB to Serial



Features

- Support USB 2.0
- 3KV DC optical isolation protection (I Models)
- Built in 15KV ESD protection for signals
- Support Windows/ Linux OS Driver
- Transparent Converter

Application



1 Port RS-232

US-101-232 (Silicon Lab)



RS - 232

1 Port Isolation

US-201-I (FTDI)



3KV DC Isolation
RS - 232/422/485

1 Port RS-422/485

US-101-485 (Silicon Lab)



RS - 422/485

4 Ports Isolation

US-401-I (FTDI)



RS - 232/422/485 x 4

1 Port Isolation

US-101-I (Silicon Lab)



3KV DC Isolation
RS - 232/422/485

4 Ports/ USB to Ethernet

UE-101



RJ45 x 1
USB2.0 x 4

Serial Converter



Features

- Plug & Play installation
- 3000V DC isolation protection
- Built in 15KV ESD protection for signals
- RS-422/485 surge & over current protection
- Built in 100 ohm Termination resistor
- Dual modes power input – DC jack / TB Connector

Application



1 Port

SC-101



RS - 232 to RS - 422/485

1 Port Isolation

SC-101-I



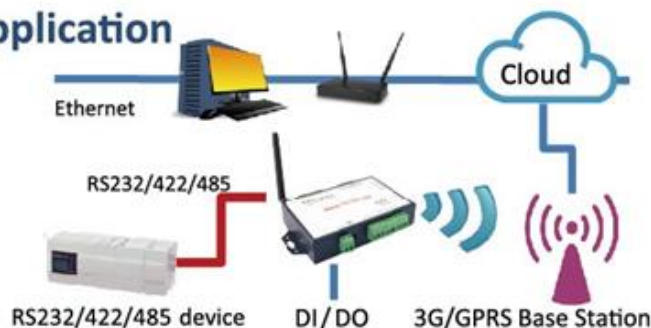
3KV DC Isolation
RS - 232 to RS - 422/485

Serial & DI/O to 3G-SMS

Features

- Support Quad Band GSM/GPRS/EDGE
- Support 850 / 900 / 1800 / 1900 Mhz
- SMS Control 3 DI / 3 DO
- RS-232/ 422/ 485 x 1
- Web Browser Configuration

Application



1 Port + DIO

E-P332-3G-DIO



3 DI / 3 DO
RS - 232/422/485

1 Port - SMS

E-P332-3G-DIO-SMS



3 DI / 3 DO
RS - 232/422/485

Industrial Gateway -Isolation

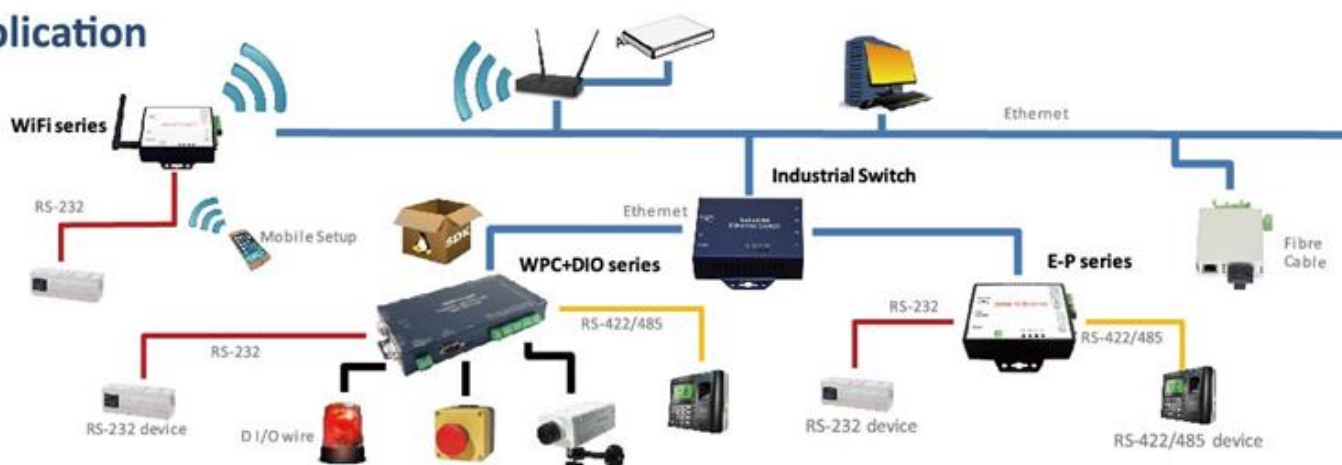
Ethernet DIO & AI



Features

- Industrial specs data gateway
- For Serial to Different Interface Converter
- Wide Range Power Input
- Wide Range Operating Temperature
- 3000 VDC Isolation

Application



Serial to Ethernet

WPC-132-I



RS-232/422/485 x 1

Serial to WiFi

WPC-832



RS-232/422/485 x 2

4 Ports+DIO+AI

WPC-632-3-DIO+AI



8 DI / 4 DO / 4 AI
RS-232 x 2, RS-422/485 x 2

2 Ports+8 DI/3 DO

E-P732-X-DIO



8 DI / 3 DO
RS-422/485 x 1

USB to Serial

US-201-I (FTDI)



RS-232/422/485 x 1

Serial to Bluetooth

BS-101-I



RS-232/422/485 x 1

4 Ports+8DI/4DO

WPC-332-DIO84



8 DI / 4 DO
RS-232 x 3, RS-422/485 x 1

WiFi to DIO

E-P132-WB-DIO



2 DI / 4 DO
http command

RS-232 to RS-422/485

SC-101-I



RS-232/422/485 x 1

Ethernet Switch/PoE

IES-501-I



Analog Input -TCP

AI-140-WEB



RS-485 x 1
Analog Input x 4

Analog Input - RTU

AI-140-Modbus



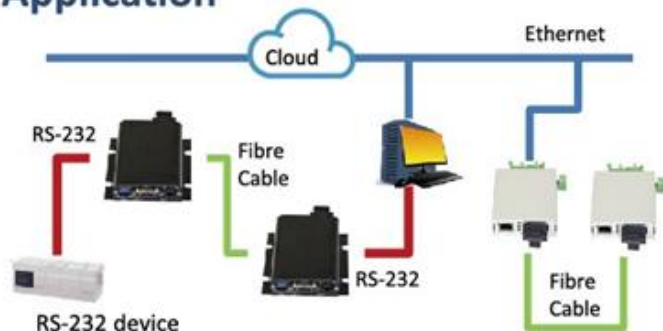
Analog Input x 4



Features

- Convert one RS-232 /422/485 port (FS model)
- Convert to 10/100 Mbps Ethernet (FE model)
- Multi Mode max. distance reach 2Km
- Single Mode distance up to 80Km
- Low noise and low BER
- Small cross talk

Application



Fiber to Serial

FS-120-SM



Single Mode
RS-232/422/485

Fiber to Serial

FS-120-MM



Multi Mode
RS-232/422/485

Fiber to Ethernet

FE-100-C-SM



Single Mode
RJ45 x 1

Fiber to Ethernet

FE-100-C-MM



Multi Mode
RJ45 x 1

Fiber to Giga LAN

FGE-100-C-SM



Single Mode
RJ45 x 1, Giga bits

Fiber to Giga LAN

FGE-100-C-MM



Multi Mode
RJ45 x 1, Giga bits



Features

- Wide operating temperature range IP175DLFI (-40°C to 85°C)
- Up to 2K MAC addresses
- Support auto-polarity for 10Mbps
- Broadcast storm protection
- Auto MDI-MDIX
- Layer2-4 Multi-Field classifier, support traffic policy
- 5 to 30VDC Power inputs
- Industrial metal case
- Supports screw terminal or DC-JACK
- Low power consumption

Application



5 Ports 10/100M

IES-501-I



8 Ports 10/100M

IES-801-I



5 Ports 10/100/1000M

IGES-501-I



8 Ports 10/100M+PoE

IES-801-I-PoE



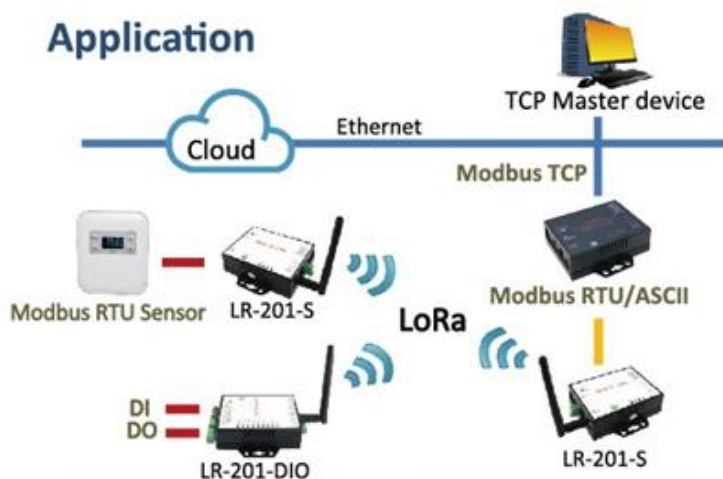
LoRa Series



Features

- Support Modbus RTU / TCP
- For Long Range (1~5 KM)
- ISM band 862 ~ 936MHz
- Security - 128/192/256 bits AES
- Antenna : SMA Type, Exchangeable
- Star Infrastructure
- Provide Utility for Installation

Application



Serial to LoRa

LR-201-S



Digital I/O To LoRa

LR-201-DIO



Ethernet To LoRa

LR-201-E



USB To LoRa

LR-201-U



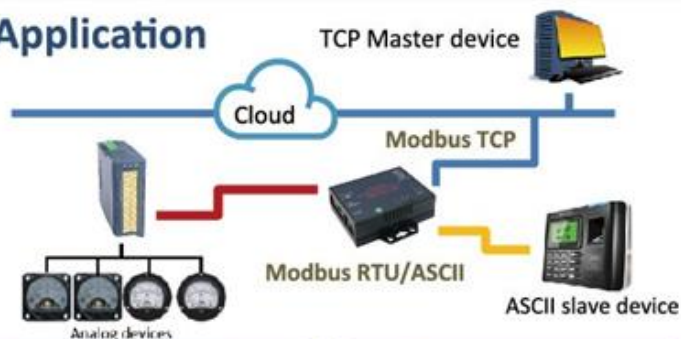
Analog Input / Output



Features

- Support Modbus RTU Analog Devices
- Support 8/16 channels Input or Output
- Modules cover various applications
 - * Voltage Input/Output
 - * Current Input/Output
 - * Direct Sensor Input
 - * Thermocouple, RTD Input
 - * Digital Input (Dry/Wet), Output (NPN/Relay)

Application



Universal Analog Input



AI-103 / AI-104

±100mV, ±500mV, ±1V,
±5V, ±10V, 0~100mV,
0~500mV, 0~1V, 0~5V,
0~10V
±20mA, 4~20mA, 0~20mA
J, K, T, E, R, S, B, N
8/16 channels, RS-485

Current Input



AI-109 / AI-110

±20mA, 4~20mA, 0~20mA
8/16 channels
Modbus RTU RS-485

Voltage and Current Output



AO-201

±5V, ±10V, 0~5V, 0~10V
4~20mA, 0~20mA
8 channels
Modbus RTU RS-485

Voltage Input



AI-111 / AI-112

±1V, ±5V, ±10V, 0~1V,
0~5V, 0~10V
8/16 channels
Modbus RTU RS-485

RTD Input



AI-113

Platinum 100, 1000
Cu 50, 100, 1000
Nickel 100Ω, 120Ω,
507.5Ω, 604Ω
BALCO500
6 channels, RS-485

Thermocouple Input



AI-107 / AI-108

J, K, T, E, R, S, B, N
8/16 channels
Modbus RTU RS-485

Digital Input (Dry/Wet)



DI-301 / DI-302

16/32 channels DI
Dry/Wet contact
3000V DC Isolation
Modbus RTU RS-485

Relay/ Transistor Output



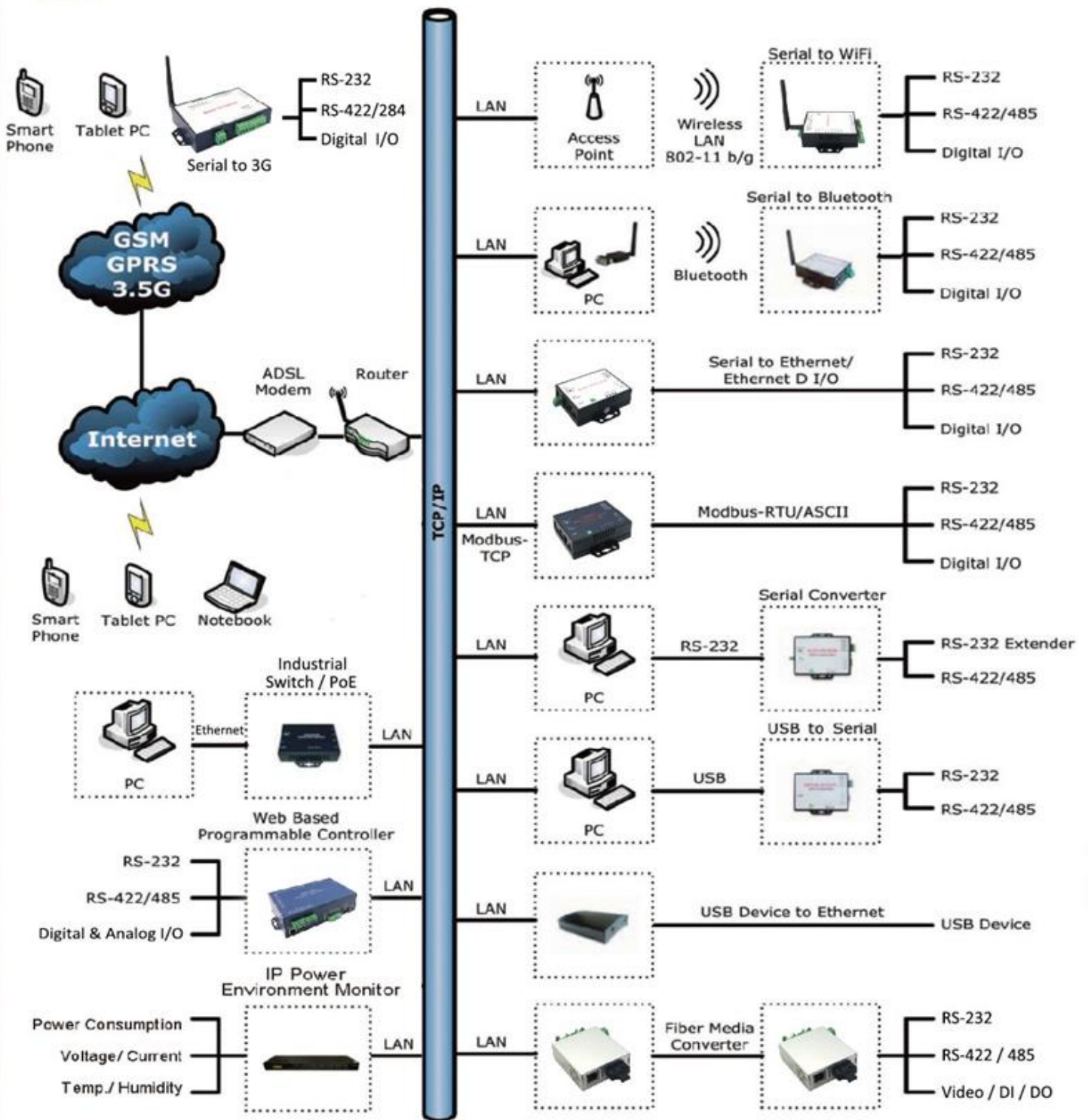
DO-401 / DO-402

NPN 16/32 channels
DO-403
4 Form A, 4 Form C
DO-404
8 Form A, 8 Form C
DIO-501 16 DI, 16 DO NPN
DIO-502 16 DI, 16 DO Relay

《Application Infrastructure》



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OEM/ODM Welcome

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