



KSH

IoT Sensors Gateway

Serial to Ethernet

Web Programmable Controller

Modbus Gateway

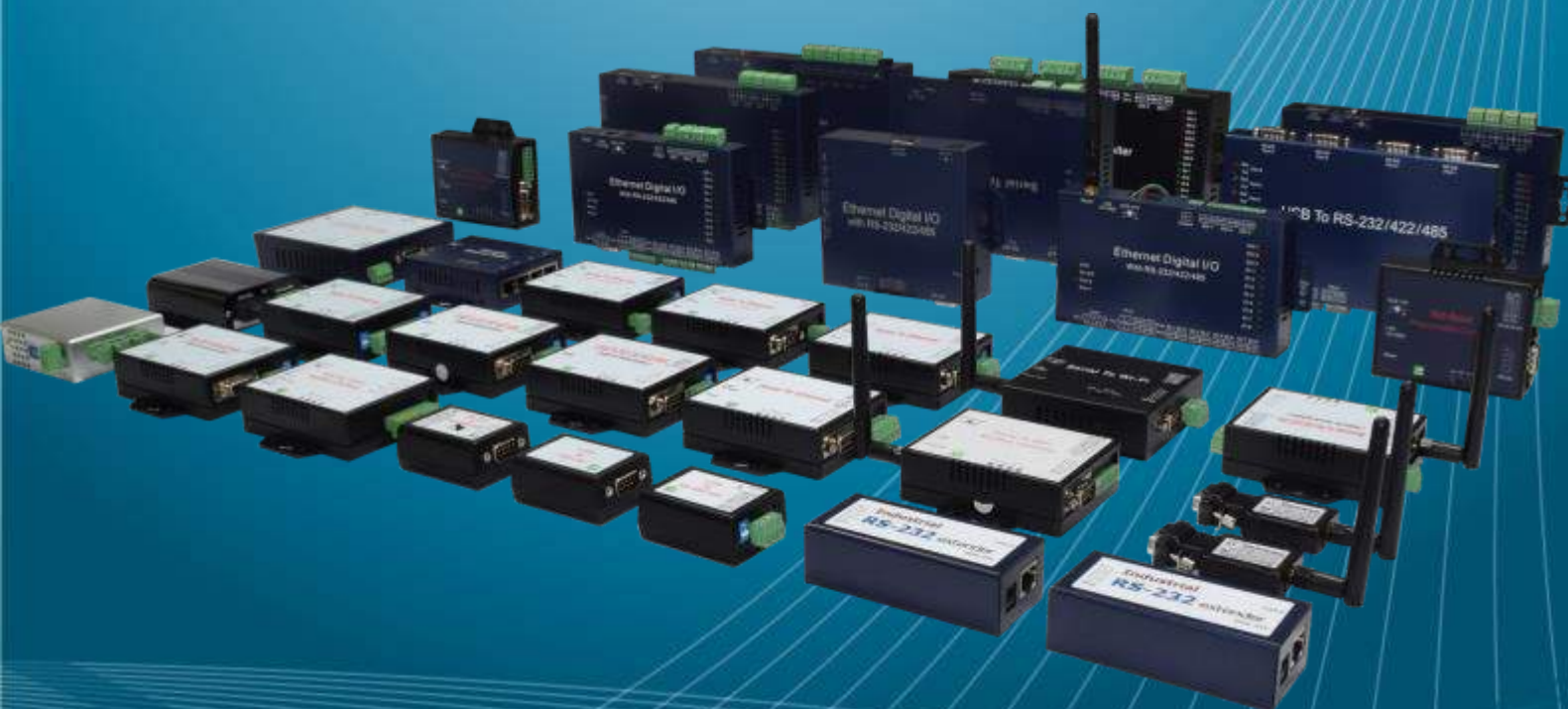
Serial to WiFi / 3G / Bluetooth

Remote DIO / AIO

Fibre to Serial / Ethernet

USB to Serial Converter

Serial Converter



CE FC

Serial to Ethernet



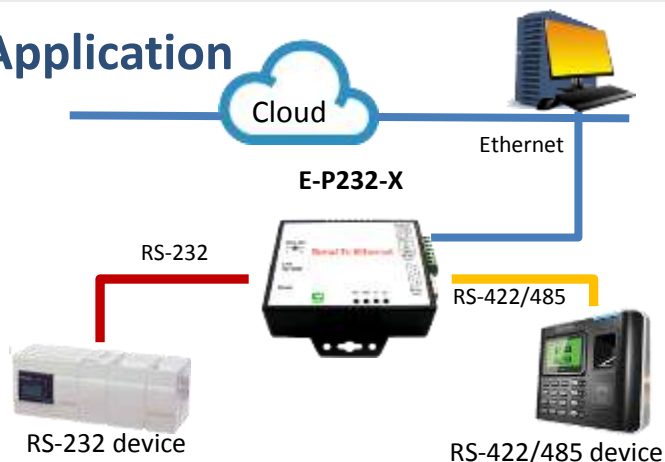
Features

- Multi Serial interfaces
- Operation Modes : TCP server; TCP client; UDP; Virtual COM; Paring
- Built in 15KV ESD protection for signals
- Web Browser configuration
- Easy installation Windows utility
- On line F/W upgrade

Introduction

KSH is a professional Industrial member who dedicates especially on the building block of IoT (Internet of Things) – Sensors gateway, which bridge the various edge sensors connected to the Internet Cloud through Ethernet, WiFi, RF, 3G/GPRS, Bluetooth, ZigBee. The KSH Web Programmable Controllers allow customers to program own software applications to meet various scenarios requirements

Application



1 Port

E-P232-X-2



RS-232

E-P232-X-5



RS-422/485

E-P132-100



RS-232/422/485

1 Port + PoE

E-P232-X-2-PoE



802.3af
RS-232

E-P232-X-5-PoE



802.3af
RS-422/485

2 Ports

E-P332



RS-232
RS-422/485

E-P232-X



RS-232
RS-232/422/485

E-P232-X-485



RS-422/485
RS-232/422/485

2 Ports + DIO

E-P232-X-DIO



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

E-P332-DIO



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

4 Ports

E-P432



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

TTL Module

E-P232-X-T-R



RJ45
UART x 2

E-P232-X-T



UART x 2

E-P232-X-M



RS-232
RS-232/422/485

E-P332-M



RS-232
RS-422/485

Web Programmable Controller

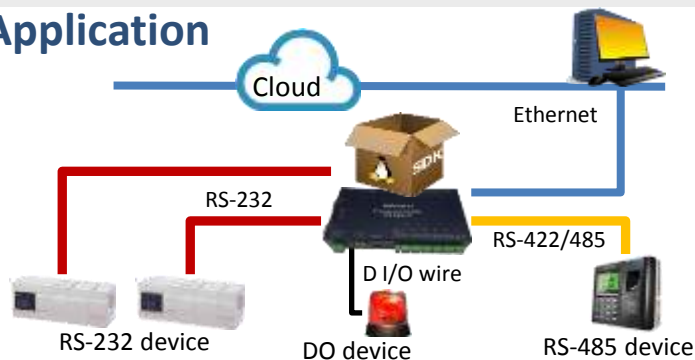
Modbus Gateway



Features

- SDK for own software development
- Operation Modes : TCP server; TCP client; UDP; Virtual COM; Paring
- USB / Micro SD slot for storage
- Built in RTC
- Built in 15KV ESD protection for signals
- Web Browser configuration

Application



1 Port

WPC-132-RTC



RS-232/422/485

2 Ports

WPC-232



RS-232
RS-422/485

4 Ports

WPC-332



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

2 Ports + DIO

WPC-332-DIO88-AC



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

4 Ports + DIO

WPC-332-DIO84



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

WPC-332-DIO106



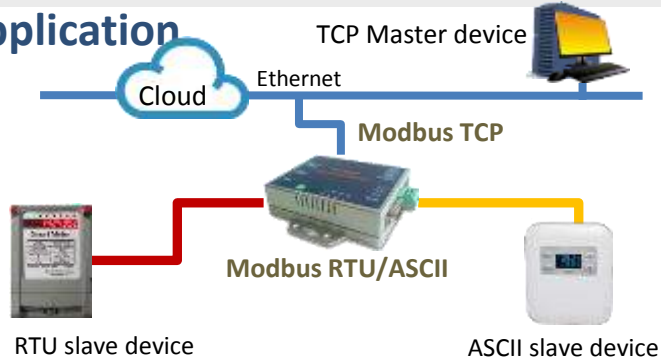
10 DI / 6 DO
RS-232 x 3
RS-422/485 x 1



Features

- Support Modbus TCP to Modbus RTU/ASCII
- 4 Modbus modes Browser selectable
- Support 8 TCP Masters simultaneously
- 32 requests simultaneous per Master
- Serial Master access to 8 TCP connections
- Web Browser configuration
- Easy installation Windows utility

Application



WPC / 1 Port

WPC-232-Modbus



RS-232/422/485

S to E / 1 Port

E-P332-Modbus



RS-232/422/485

S to WiFi / 1 Port

E-P132-WA-B-Modbus



RS-232/422/485

S to 3G / 1 Port

E-P332-3G-Modbus



RS-232/422/485

Modbus TCP to DIO

WPC-332-DIO84-Modbus



8 DI / 4 DO

Analog Input / 1 Port

AI-140-Modbus



Analog Input x 4
RS-485 x 1

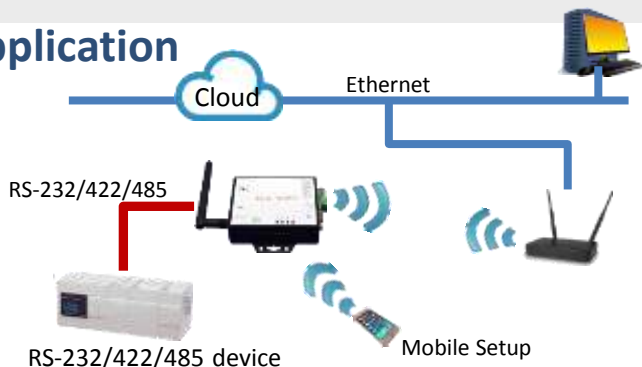
Serial to WiFi



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

Application



S to WiFi / 1 Port

E-P132-WA



RS-232/422/485

S to WiFi / 1 Port

E-P132-WA-B



RS-232/422/485

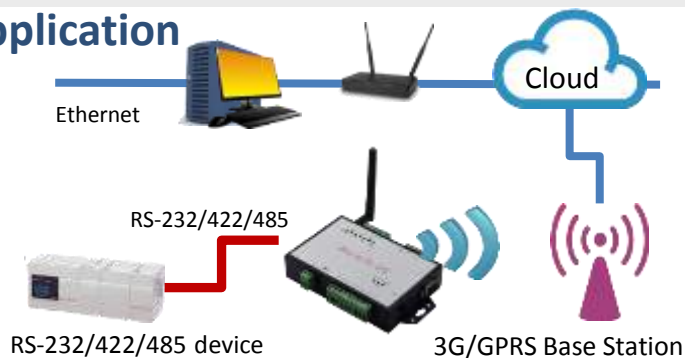
Serial to 3G



Features

- Support Dual Band UMTS/HSDPA
- Support 900 / 2100 Mhz
- Support Quad Band GSM/GPRS/EDGE
- Support 850 / 900 / 1800 / 1900 Mhz
- Support 3 DI / 3 DO
- Digital IO Controlled by TCP Socket
- Support TCP server; TCP client; UDP; Virtual COM

Application



1 Port + DIO

E-P332-3G-DIO



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

1 Port + Modbus

E-P332-3G-Modbus



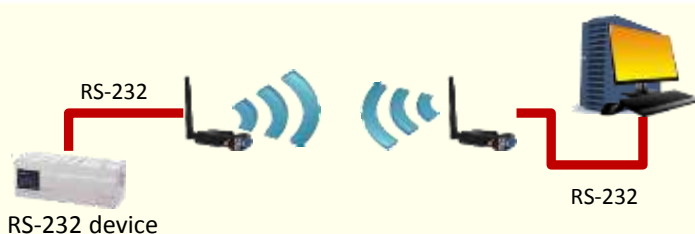
RS-232/422/485

Serial to Bluetooth

Features

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

Bluetooth Application



S to WiFi / 1 Port + DIO

E-P132-WA-B-DIO



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

S to WiFi TTL Module

E-P132-WA-B-T



802.11b/g/n
UART x 1

S to BT / 1 Port

BS-101-I



3KV DC Isolation
RS-232/422/485

S to BT / 1 Port

E-P132-B1



RS-232

USB to Serial

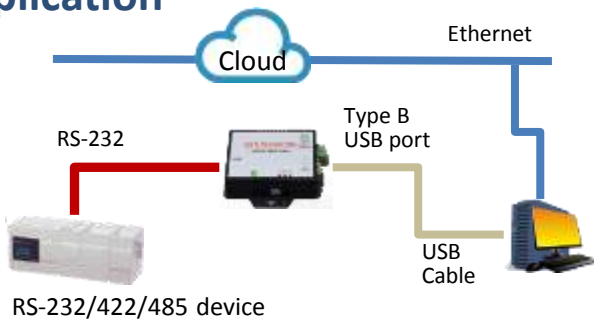
Smart Lighting Solution



Features

- Support USB 2.0
- 3KV DC optical isolation protection (I Models)
- Built in 15KV ESD protection for signals
- Support Windows device driver
- Transparent Converter

Application



1 Port

US-101-I (Silicon Lab)



3KV DC Isolation
RS-232/422/485

1 Port

US-201-I (FTDI)



3KV DC Isolation
RS-232/422/485

1 Port RS-232

US-101-232



RS-232

1 Port RS-422/485

US-101-485



RS-422/485

4 Ports

US-401-I (FTDI)



RS-232/422/485 x 4

4 Ports / USB to Ethernet

UE-101



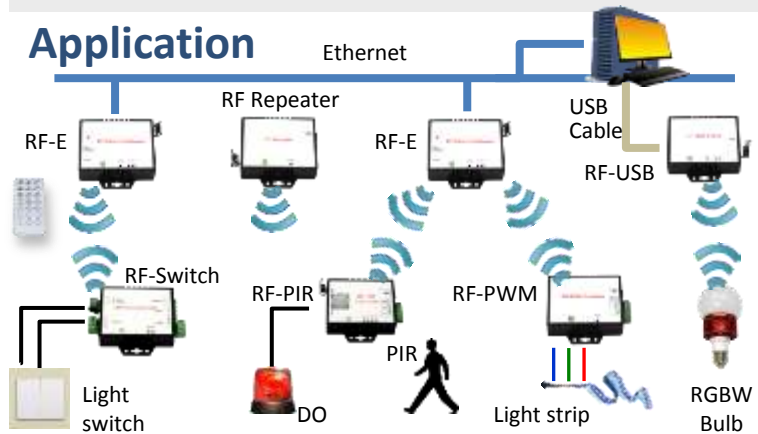
RJ45 x 1
USB 2.0 x 4



Features

- Smart lighting Integration solution for Retail shop, Home, Office, ..
- Support RF 433 Mhz
- Lights on/off, diming by RF Remote Controller
- Easy use Windows control utility

Application



RF to Ethernet

REC-101



RF 433Mhz
RJ45

RF to Light Switch

RSW-101



RF 433Mhz
AC Input

RF to PIR + DIO

RIO-101



RF 433Mhz; PIR x 1
DI x 1; DO x 1

RF to PWM

RPW-101



RF 433Mhz
PWM Control

RF to USB

RUC-101



RF 433Mhz
USB x 1

RF Repeater

RRT-101



RF 433Mhz

RGBW Bulb

RGBW-B



7W
RF 433Mhz

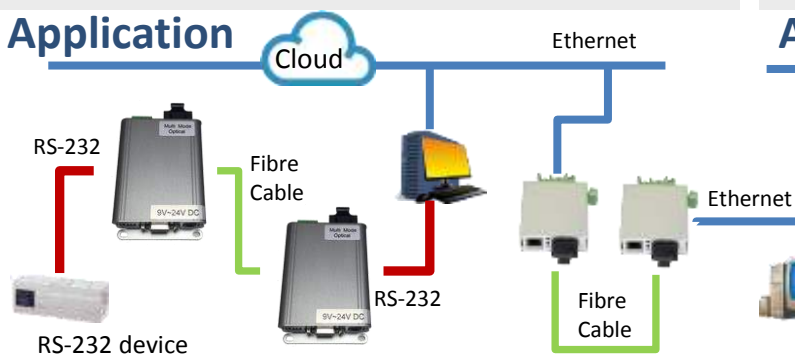
Fibre to Serial Fibre to Ethernet



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



F to S / 1 Port

FS-120-SM



Single Mode
RS-232/422/485

F to S / 1 Port

FS-120-MM



Multi Mode
RS-232/422/485

F to E / 1 Port

FE-100-C-SM



Single Mode
RJ45 x 1

F to E / 1 Port

FE-100-C-MM



Multi Mode
RJ45 x 1

F to E / 1 Port

FEG-100-C-SM



Single Mode
RJ45 x 1, Giga bits

F to E / 1 Port

FEG-100-C-MM



Multi Mode
RJ45 x 1, Giga bits

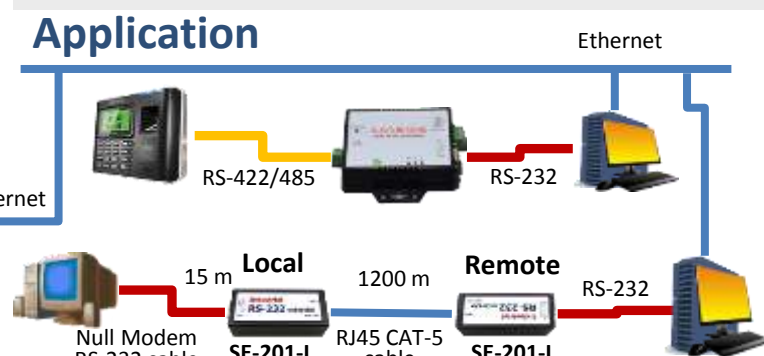
Serial Converter RS-232 Extender



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

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

RS-232 Extender

SE-201-I



Extend 1200m
RS-232

UART to 485

SC-101-T-485



RS-422/485 x 1

UART to 232 M

SC-101-T-M



RS-232 Male x 1

UART to 232 F

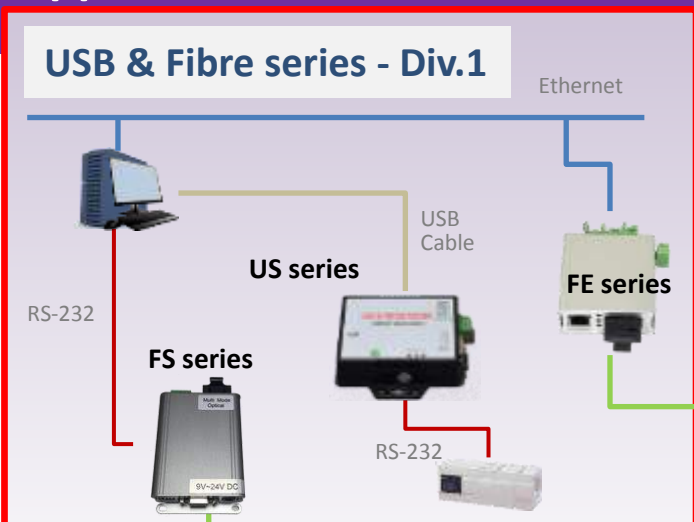
SC-101-T-F



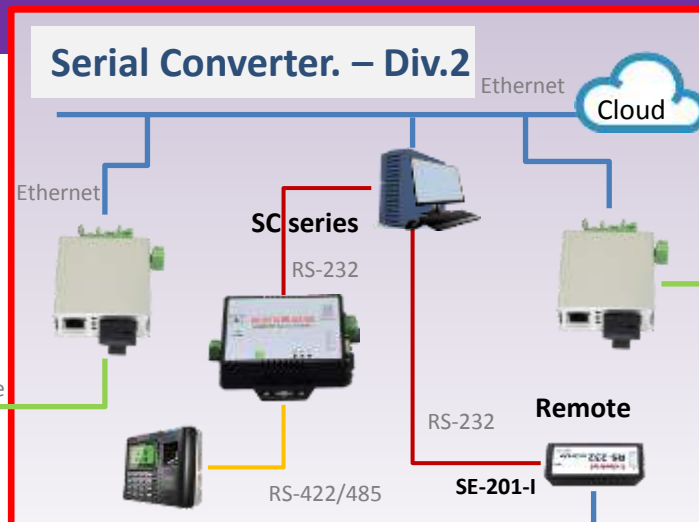
RS-232 Female x 1

Application Scenarios

USB & Fibre series - Div.1



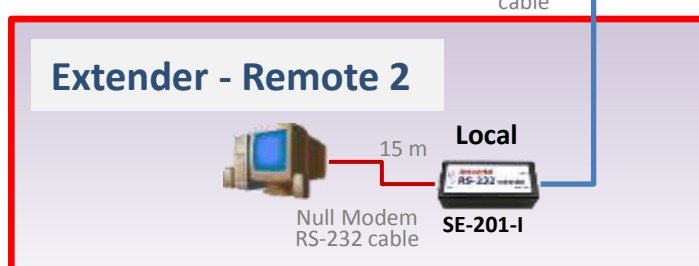
Serial Converter. – Div.2



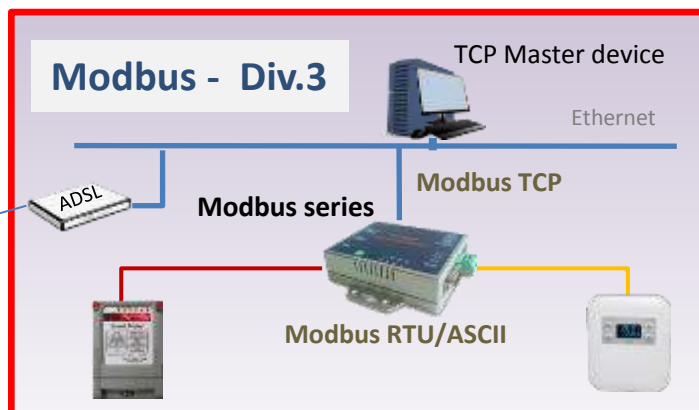
3G Series - Remote 1



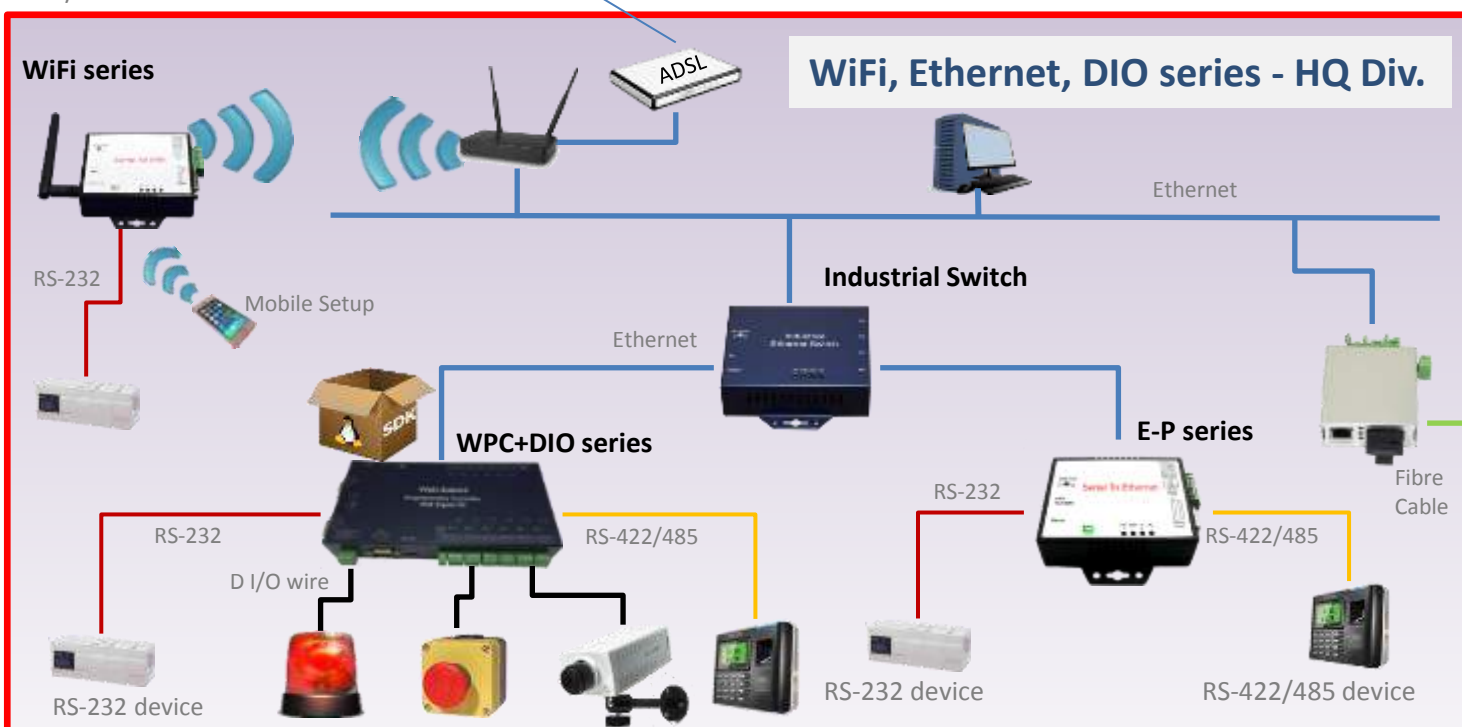
Extender - Remote 2



Modbus - Div.3

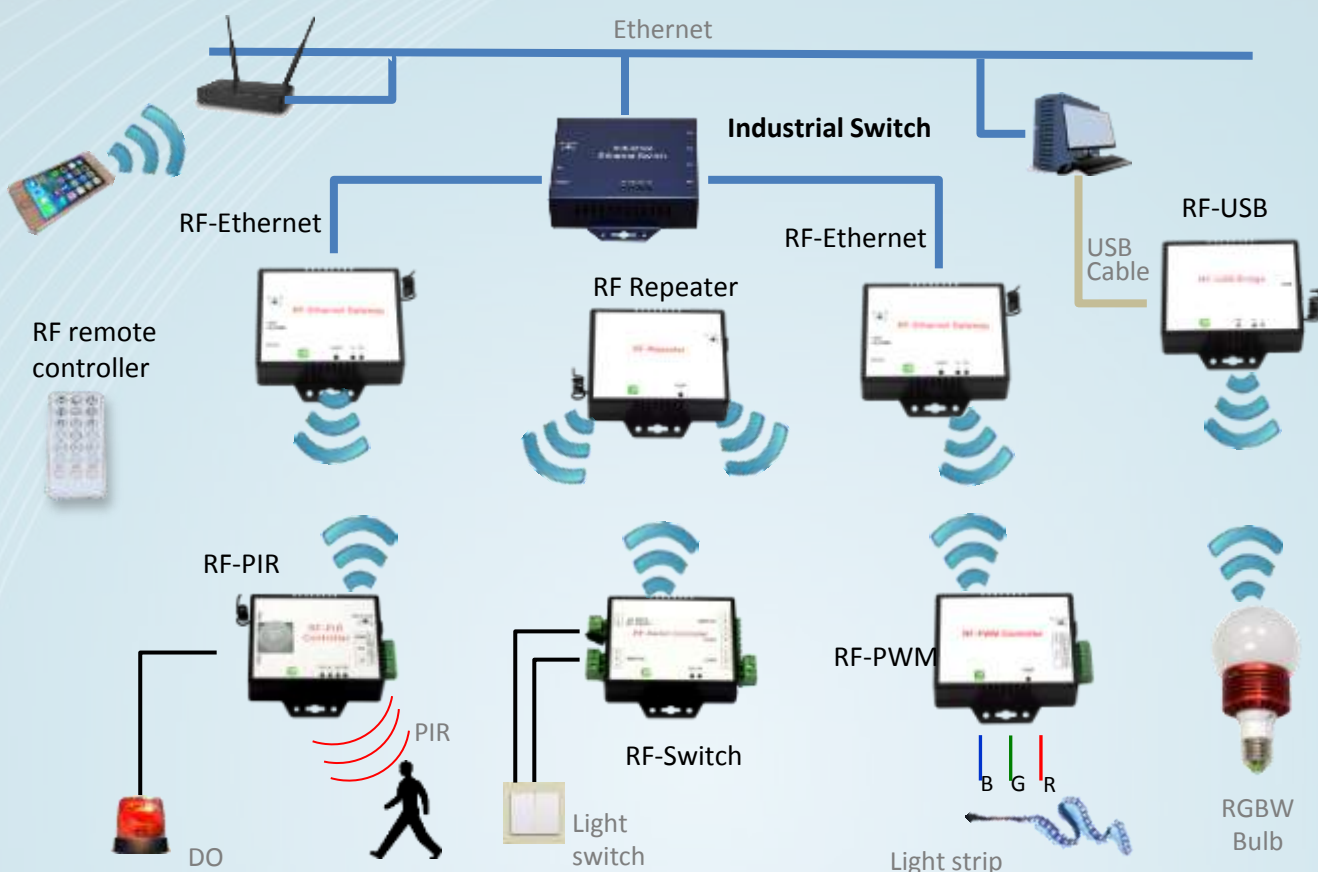


WiFi series



WiFi, Ethernet, DIO series - HQ Div.

Smart Lighting Solution



Smart Office Solution

