

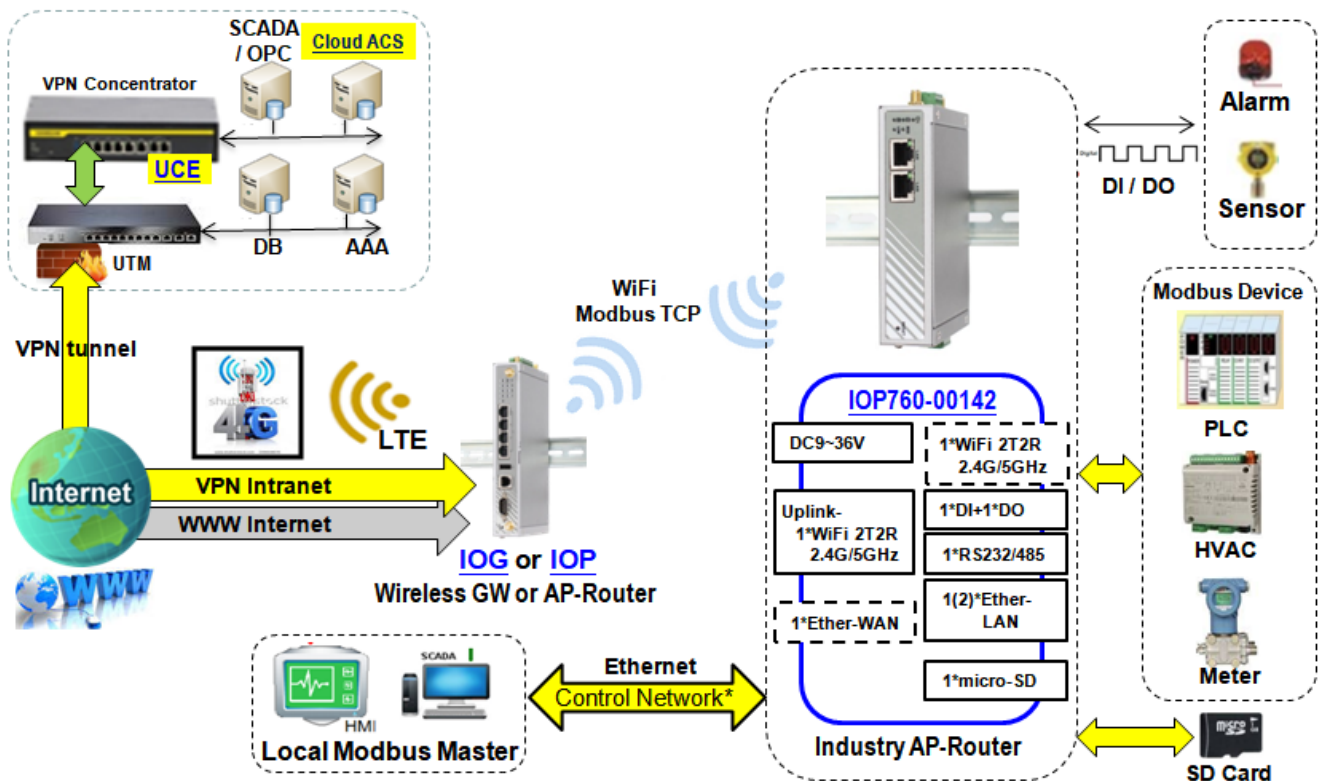
## Industry AP-Router

### Feature Sets:

- Smart Industry, Smart Utility, and Smart City applications.
- Equip with 1\*WiFi 2.4G/5GHz uplink port, or 1\* Ethernet port for connecting the modbus devices to the controller or management center.
- 802.11a/b/g/n/ac WiFi Compliance; Multiple (8) SSIDs for privilege group devices or users.
- 1(2)\*FE LAN port for linking local Modbus/TCP devices.
- 1\*RS232/RS485 interface for modbus RTU/ASCII and various serial communication protocol, and 1\*DI, 1\*DO for device triggering or event reporting.
- Fully protocol with NAT/Routing/IPv6 compatible with most IP network.
- OpenVPN and IPsec support up to 16 concurrent tunnels (IPsec).
- Firewall with SPI and IPS prevent hacker attacking and enhance network efficiency.
- SNMP, Telnet CLI, and TR-069 for administrator to manage system.



### Connection Diagram:



# Specifications<sup>1</sup>:

## Device Interfaces

Uplink: 11n /ac (2.4GHz/5GHz) WiFi Uplink, or  
1\*RJ45 FE (Configurable)  
LAN-RJ45: 1(2)\*RJ45 FE  
LAN-WiFi: 11n 2T2R (2.4GHz), or 11ac 2T2R (5GHz)  
Comm. Bus: 1\*RJ12 RS232/RS485  
I/O: 1\*DI ("Logic 0": 0~2V, "Logic 1": 5V~30V),  
1\*DO (Relay Mode, up to 30V / 1A)  
Storage & Log: 1\*MicroSD Slot,  
support SD-XC Class 10 (max. 64GB)  
Antenna: 2\*5dBi detachable ant. (WiFi)  
Power Source: DC 9V~36V

## WAN Functions

Uplink: Bridge, Gateway,  
Configurable Ethernet / WiFi  
Ethernet: Dynamic IP, Static IP, PPPoE, PPTP, L2TP  
WiFi: 11n/ac (2.4GHz/5GHz) WiFi Uplink  
IPv6: Dual Stack, 6-in-4, 6-to-4

## Basic Functions

Ethernet: LAN IP, Subnet Mask  
WiFi Operation: AP Router, WDS, WDS Hybrid Modes  
WiFi Security: WEP, WPA, WPA2, WPA-PSK, WPA2-PSK, 802.1x  
VLAN: Tag-based  
Port Forwarding: Virtual Server/ Computer, DMZ Host,  
VPN Pass-through  
QoS: Policy-based Bandwidth Control and Packet  
Flow Prioritization

## Object Definition

Scheduling: Time Schedule List  
Grouping: Host Grouping List  
Ext. Server: Email, Syslog, RADIUS, LDAP, FTP  
Certificate: My Certificate, Trusted Certificate,  
Issue Certificate

## Field Communication

Virtual COM: RFC2217, TCP Client, TCP Server, UDP  
Modbus: Modbus Slave, Modbus Gateway for  
Modbus TCP Master/Slave, Modbus  
RTU/ASCII Master/Slave Access  
Data Logging: Sniffer, Off-line Proxy, Full-time Proxy,  
Sniffer & Proxy mixed modes

## Security

VPN Tunneling: IPSec, OpenVPN;  
Tunneling with Full Tunnel, Tunnel Failover  
VPN Scenario: Site to Site, Site to Host, Host to Site, Host  
to Host, Hub and Spoke, Dynamic VPN  
VPN Capability: IPSec: up to 16 tunnels  
Firewall: SPI Firewall with Stealth Mode, IPS  
Access Control: MAC Filter  
Authentication: Captive Portal

## Service

Event Handling: Managing / Notifying Events; DI, DO,  
Modbus, Syslog, SNMP Trap, Email Alert,  
Reboot

## Administration

Config. & Mgmt.: Web, Telnet CLI, Command Script, TR-069,  
SNMPv3 standard & AMIT MIB  
System Op.: MMI, System Info., System Time / Log,  
Backup & Restore, Reboot & Reset  
FTP: FTP Server, User Account  
Diagnostic: Packet Analyzer, Diagnostic Tools

## Dimension

Device (LxWxH): 31x 99 x131mm (w/o mounting kit)  
31x108x131mm (with DIN Rail kit)  
167x 99 x 39mm (with Bracket kit)

## Environment

Operation Temp.<sup>2</sup>: -30 °C ~ 70 °C  
Storage Temp.: -40 °C ~ 85 °C  
Humidity: 10% ~ 95% (non-condensing)

## Accessory

Package Content  
1\*Device, 2\*WiFi Antenna (5dBi),  
1\*Terminal Block (2-pin for DC Power),  
1\*Terminal Block (4-pin for DI/DO),  
1\*DIN Rail Bracket, 2\*Mounting Brackets, 1\*Screw Bag,  
4\*Rubber feet, 1\*CD (User Manual)

## Certification

Approval / Certificate  
CE  
Standards & Regulation  
EMI: EN 55032: 2015 +AC: 2016 Class B  
EN 61000-3-2:2014, 61000-3-3:2013  
EMS: EN 55024:2010+A1:2015  
EN 61000-6-2:2005+AC:2005  
IEC 61000-4-2(ESD) Level 4  
IEC 61000-4-3(RS) Level 3  
IEC 61000-4-4(EFT) Level 4  
IEC 61000-4-5(Surge) Level 3  
IEC 61000-4-6(CS) Level 3  
IEC 61000-4-8(PFMF) Level 4  
Radio: EN 301 489-1/-7/-24/52  
EN 50385  
Safety: EN 60950-1

1. Specifications are subject to change without prior notice.

2. WiFi performance will be degraded if device's ambient temperature is above 60°C.

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