

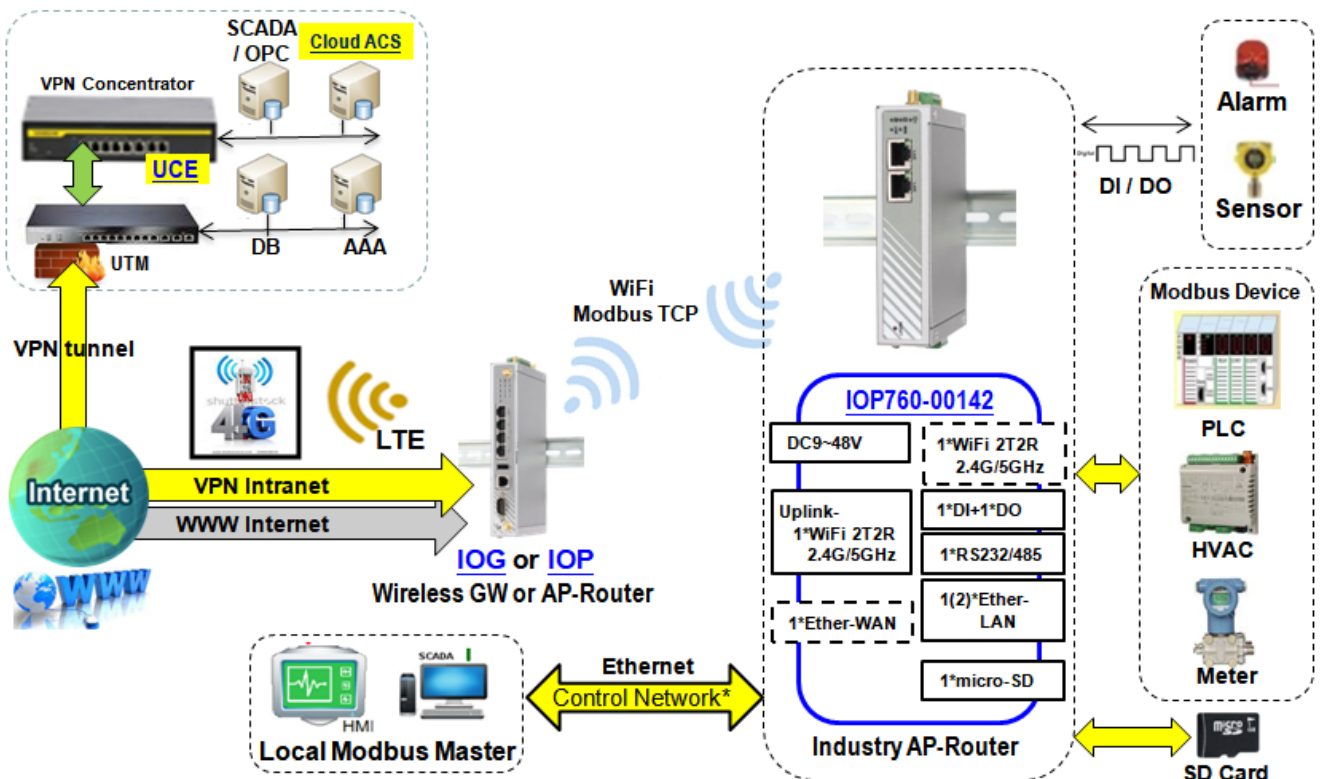
Industry AP-Router

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:



Specifications¹:

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~48V

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.²: -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 4
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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