Feature Sets:

- Modbus AP Router for Smart Industry, Smart Utility, Smart City, and Outdoor applications.
- 1* Ethernet port, or 1* Wi-Fi 2.4G/5GHz uplink 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* 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 with max 70Mbps throughput (IPSec).
- Firewall with SPI and IPS prevent hacker attacking and enhance network efficiency.
- SNMP, Telnet CLI, and TR-069 for administrator to manage system.
- Seamless power failover between redundant 9-48V DC input.

Connection Diagram:

Applications:

Modbus WiFi Adapter for Industrial Automation
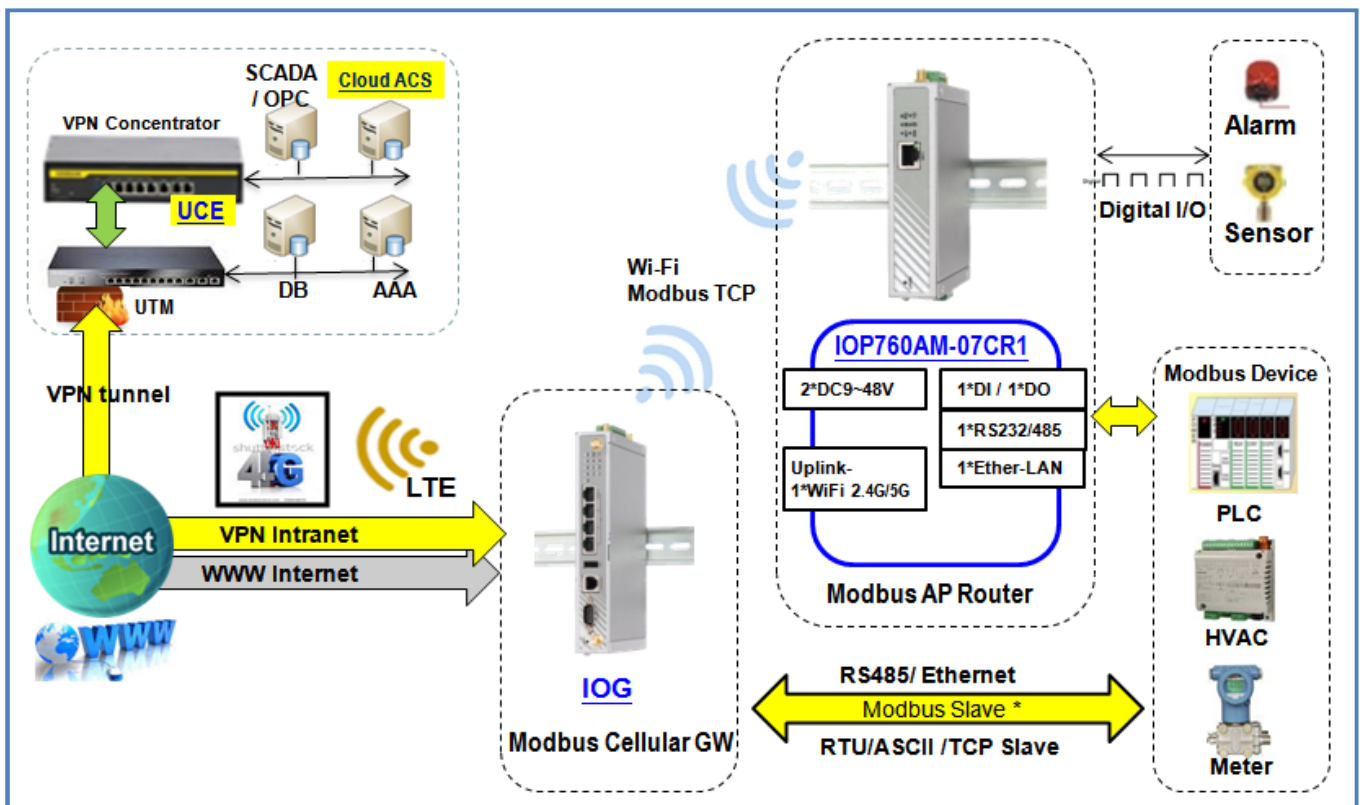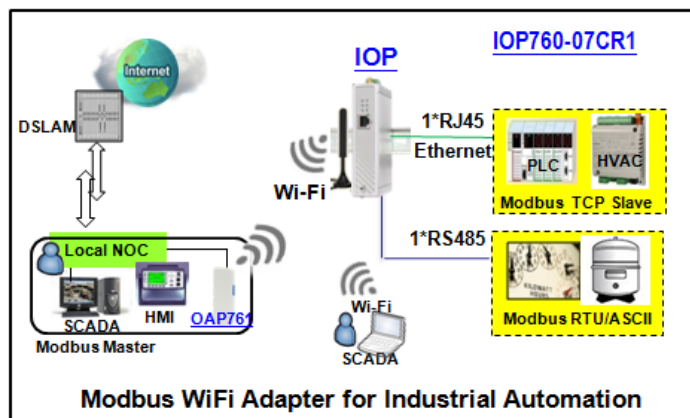
Function: To deploy a modbus AP Router for Industrial Automation

Description:
• The easiest way to deploy a modbus Wi-Fi adapter for connecting your industrial automation or telemetry equipments to the local / remote management center with wireless solution.
• With 802.11n/ac (2.4G/5GHz selectable) as connection interface, it is simple to connect with existing wireless local data network.
• The most cost-effective product for you with robust design for secure internet access, variable voltage range, wide temperature range.

Specifications[1]:

Device Interfaces

Uplink:	11n /ac (2.4GHz/5GHz) Wi-Fi Uplink, or 1*RJ45 FE (Configurable)
LAN-RJ45:	1* RJ45 FE
LAN-Wi-Fi:	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[2]:	1* MicroSD Slot
Antenna:	2* 5dBi detachable ant. (WiFi)
Power Source:	Dual DC 9V~48V

WAN Functions

Uplink:	Bridge, Gateway, Configurable Ethernet / Wi-Fi
Ethernet:	Dynamic IP, Static IP, PPPoE, PPTP,L2TP
Wi-Fi:	11n/ac (2.4GHz/5GHz) Wi-Fi 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, 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.:	-20 ℃ ~ 60 ℃
Storage Temp.:	-40 ℃ ~ 85 ℃
Humidity:	10% ~ 95% (non-condensing)

1. Specifications are subject to change without advanced notice.
2. MicroSD card is not included in standard package.

AMIT Wireless Inc.
TEL: +886 (0)6 505 8026   FAX: +886 (0)6 505 8068
Web: http://www.amit.com.tw   Email: sales@amit.com.tw
No. 28, Lane 31, Huandong Rd., Sec. 1, Tainan Science Park, Sinshih District, Tainan City 741, Taiwan   IOP760AM-07CR1 V1.7a