

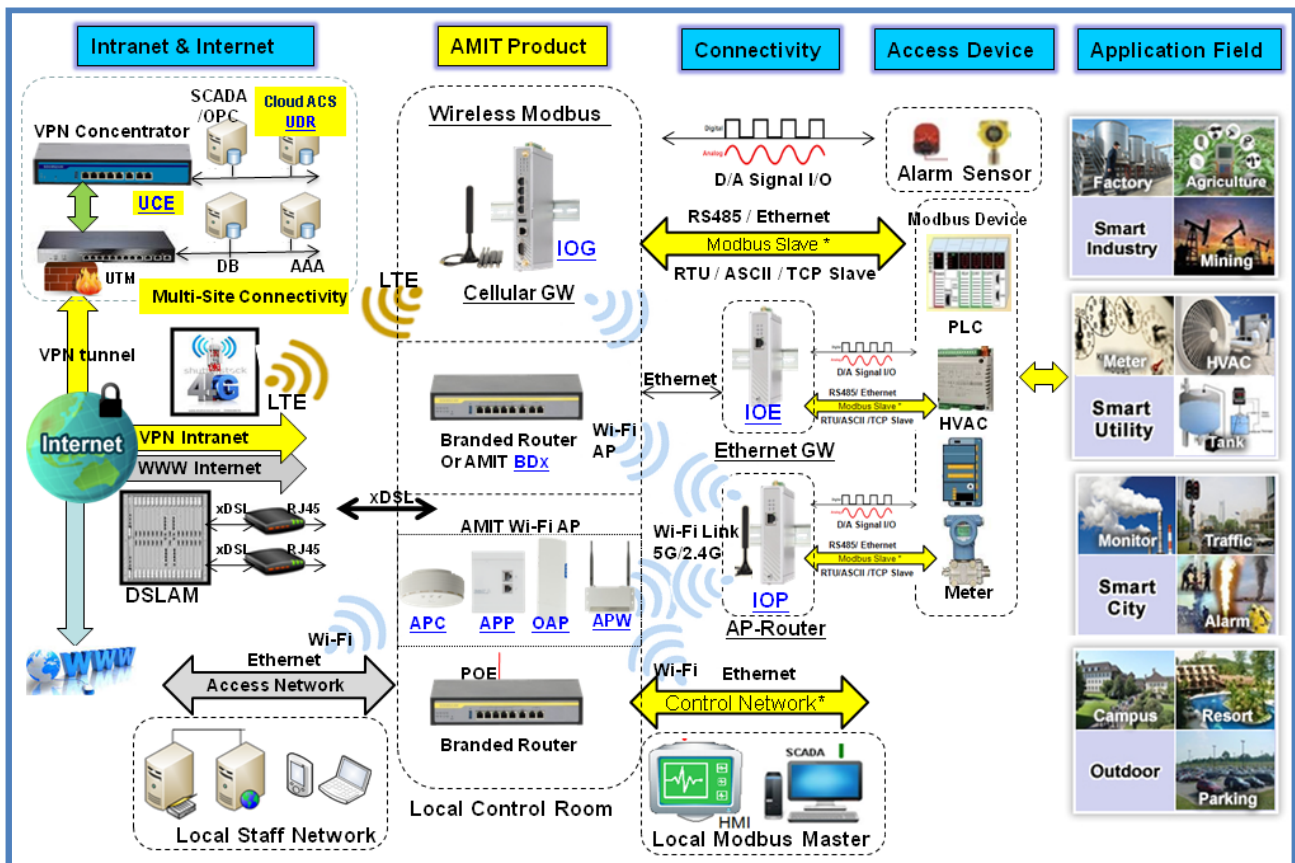


IOG : Modbus Cellular Gateway
IOE : Modbus Ethernet Gateway
IOP : Modbus AP Router



- **Application:**
 - Provide wireless uplink to local control network or to intranet for industrial application like SCADA, Telemetry and Tele-service.
 - Modbus cellular GW provide Modbus devices uplink to intranet by LTE or to local control network by Wi-Fi or Ethernet.
 - Modbus AP router provide devices uplink to control network by Wi-Fi.
 - Modbus Ethernet gateway provide devices uplink to control network by Ethernet.
- **WAN & Uplink:**
 - LTE directly uplink to WAN intranet, Wi-Fi uplink to local center BSU.
 - Multi-cellular, combo cellular, concurrent Wi-Fi provide high reliability and BW by fail-over, or load balance mechanism.
- **Modbus Connectivity & I/O Control:**
 - Ethernet provide network connectivity and Modbus TCP access.
 - RS232/485 provide complete Modbus RTU/ASCII master / slave access.
 - Wi-Fi AP provide Modbus bridge and Wi-Fi client access.
 - D/A I/O module can be used for event trigger handling or data acquisition from environment sensors.
- **Networking:**
 - Fully protocol with NAT/Routing/IPv6 compatible with most IP network .
 - Firewall and access control can prevent network from attacks.
 - VPN tunneling enable secure intranet connection.
- **Management:**
 - Web UI and CLI for friendly setting; SMS command for device remote control.
 - SNMP and TR069 for device and network status management.
- **Power / Housing / Antenna:**
 - DC 9–48V dual power input with terminal block, flexible fitting with environment.
 - IP30 Rugged metal case with vibration and shock proof.
 - DIN-rail and bracket mounting kit, easy to use in various places.

Application Scenario









Function List

 WAN & Uplink	<ul style="list-style-type: none"> Cellular: 2G/3G/LTE IPv4/IPv6, IP Pass-through* Wi-Fi: 802.11a*/b/g/n/11ac* Ethernet: Dynamic IP, Static IP, PPPoE, PPTP, L2TP ADSL2+: IpoA, EoA, PPPoA, PPPoE IPv6: Dual Stack, 6-in-4, 6-to-4 Multi-WAN: Failover, Load Balance, Bridge* Network Monitoring: ICMP/DNS Query 	 VPN	<ul style="list-style-type: none"> Tunneling: IPSec, PPTP, L2TP, GRE, OpenVPN, DMVPN, L2TP over IPSec Scenario: site to site or host; host to host or site; Hub and Spoke; DMVPN; Dynamic VPN Redundancy: Full Tunnel, Tunnel Failover; Load Balance*
 Cellular	<ul style="list-style-type: none"> SIM: Dual-SIM Failover APN Management: Auto-Detection, User Defined Priority, Manual Network Scan: Operator/Service Type/Band Selection Data Plan: Monitor, Usage Warning, Connection Restricted SMS: Send, Receive, Forward, Event Notify, Device Management USSD: Manual/USSD Profile 	 Firewall & ACL	<ul style="list-style-type: none"> Firewall: SPI Firewall with Stealth Mode, IPS Access Control: MAC Address Control, Packet, Web, Content and Application Filters, URL Blocking
 NAT & Routing	<ul style="list-style-type: none"> NAT: ALG, Special AP, DMZ, Virtual Server, Virtual Computer, NAT Traversal, PPTP/L2TP/IPSec Pass-through Type: 1 to 1, 1 to many Routing: Static, Dynamic - RIP1/RIP2, OSPF, BGP Network Server: DHCP Server & Relay, DDNS, IGMP VLAN: Port-based, Tag-based 	 QoS & BWM	<ul style="list-style-type: none"> Policy-based: Selected MAC, VLAN Tag, IP, DSCP, TCP, UDP, Service, Group to apply policy Bandwidth Management: Define Packet Priority, Max Sessions, Max/Min Bandwidth quota QoS*: 802.1q and TOS for priority queues
 Wi-Fi	<ul style="list-style-type: none"> Wi-Fi System: 802.11a*/b/g/n/ac* Mode: AP Router, WDS, WDS Hybrid Functions: Multi-SSID, WPS*, WMM Security: WEP, WPA, WPA2, WPA-PSK, WPA2-PSK, 802.1x 	 Management	<ul style="list-style-type: none"> Configuration: Web UI, Telnet CLI, Console CLI* Network: SNMPv3 standard & AMIT MIB, TR-069 Event and Handler: Power, DI, DO, Modbus, SMS, Syslog, SNMP Trap, Email Alert, Reboot
 Serial	<ul style="list-style-type: none"> Interface: RS232, RS485, Multi-Serial* Application: Modbus Gateway, Virtual COM Mode: Modbus TCP Master/Slave, Modbus RTU/ASCII Master/Slave, IEC101*, IEC104*, RFC2217, TCP Client, TCP Server, UDP 	 System	<ul style="list-style-type: none"> System: Status & Statistics, Tools, Scheduling, Upgrade, Backup & Restore Settings, Watch Dog User Auth.*: Captive Portal, RADIUS, X.509. Grouping*: Group by Host, File Extension, Application

*Subject to respective model

Specification Table¹

Product Model	IOG500AM-0x001	IOG700AM-0xCR1	IOG761AM-0T001	IOG761AM-0TDA1	IOE500AM-00001	IOP560AM-07001 / IOP760AM-07CR1
Product Photo						
Device Interface						
WAN & Uplink	-OP: 1*3G(2*SIM) ² -OT: 1*LTE(2*SIM)	-OP: 1*3G(2*SIM) -OT: 1*LTE(2*SIM)	1*LTE(2*SIM), 1*RJ45 FE (conf.)	1*LTE(2*SIM), 1*ADSL2+	1*RJ45 FE	Wi-Fi 5G/2.4G, 1*FE
LAN	1*RJ45 FE	1*RJ45 FE	3(4) * RJ45 FE	4*RJ45 FE	-	1*RJ45 FE
Wi-Fi LAN	-	-	11n 2T2R	11n 2T2R	-	11ac/n 2T2R Selectable
GNSS	-OT: 1*optional GPS	-	-	-	-	-
Comm. Bus	1*RS232/485	1*RS232/485	1*RS232/485	3/5 * RS232/485	1*RS232/485	1*RS232/485
I/O	-	1*DI+1*DO	1*DI, 1*DO	1*DI, 1*DO	-	- / 1*DI, 1*DO
Storage	-	1* microSD	1*USB 2.0	1*USB 2.0	-	- / 1* microSD
Antenna	2*3dBi 3G/LTE	2*3dBi 3G/LTE	2*3dBi LTE, 2*5dBi Wi-Fi	2*3dBi LTE, 2*5dBi Wi-Fi	-	2*5dBi BD Wi-Fi
Functionality						
WAN & Uplink	Cellular	Cellular	Cellular, Ethernet	Cellular, ADSL	Ethernet	Wi-Fi, Ethernet
Cellular	Yes ³	Yes	Yes	Yes	-	-
NAT & Routing	Yes	Yes	Yes	Yes	Yes	Yes
Wi-Fi	-	-	Yes	Yes	-	Yes
Serial	Yes	Yes	Yes	Yes	Yes	Yes
VPN	Yes (IPSec=3)	Yes (IPSec=8)	Yes (IPSec=8)	Yes (IPSec=8)	Yes (IPSec=3)	Yes (IPSec=3/8)
Firewall & QoS	Firewall	Yes	Yes	Yes	Firewall	Firewall / Yes
Management	Yes	Yes	Yes	Yes	Yes	Yes
System	Yes	Yes	Yes	Yes	Yes	Yes
Power & Installation						
Power Source	1* DC 9V~32V	2* DC 9V~48V	2* DC 9V~48V	2* DC 9V~48V	1* DC 9V~32V	DC 9V~32V / 2*DC9~48V
Operation Temp. ⁴	-20°C ~ 60°C	-20°C ~ 60°C	-20°C ~ 60°C	-20°C ~ 60°C	-20°C ~ 60°C	-20°C ~ 60°C
Enclosure	Metal-case	Metal-case	Metal-case	Metal-case	Metal-case	Metal-case
Dimension ⁵	93x90x27mm	31x99x131mm	31x110x187mm	31x110x187mm	93x90x27mm	same as left
Install Method	DeskTop, Wall Mount	DIN Rail, Bracket	DIN Rail, Bracket	DIN Rail, Bracket	DeskTop, Wall Mount	same as left

1: Specifications are subject to change without advanced notice.

2: Supported frequency band is dependent upon regional hardware version.

3: "Yes" means full specifications in the Function List above.

4: 3G/4G and Wi-Fi performance will be degraded if device's ambient temperature is above 55 °C.

5: Dimension (WxDxH) for device enclosure only, without mounting kit attached.

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