

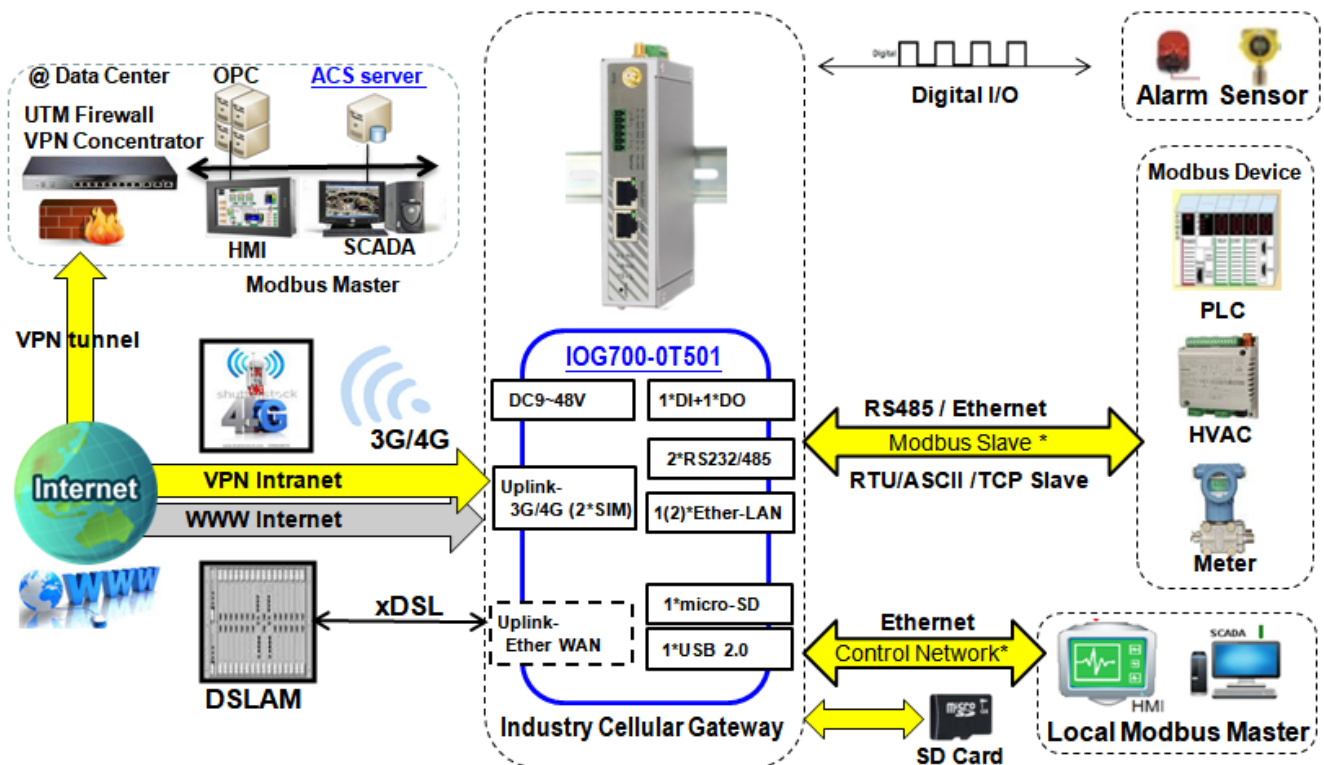
Industry Cellular Gateway

Feature Sets:

- Smart Industry, Smart Utility, and Smart City applications.
- Equip with a dual-SIM LTE module with failover function.
- 2 Ethernet ports with tag based and port based VLANs easily to group control and relocate traffic pattern.
- Equip with 2 RS232/RS485 interfaces for Modbus RTU and various serial communication protocol, and DI/DO for device triggering or event reporting.
- Equip with multi-mode data logging function and store the collected logs on attached storage for SCADA telemetry.
- Fully protocol with NAT/Routing/IPv6 compatible with most IP network.
- IPSec, OpenVPN, PPTP, and L2TP VPN support up to 16 concurrent tunnels (IPSec).
- Firewall with SPI and IPS function prevent hacker attacking and enhance network efficiency.
- SNMP, Telnet CLI, and TR-069 for administrator to manage system.
- QoS and Bandwidth management for optimal bandwidth usage.



Connection Diagram:



Specifications¹:

Device Interfaces

Uplink:	1*LTE cat.4 module (dual micro-SIM), 1*RJ45 GE (configurable)
LAN-RJ45:	1(2)* RJ45 GE
Comm. Bus:	2*RS232/RS485 (Terminal Block)
I/O:	1*DI ("Logic 0": 0~2V, "Logic 1": 5V~30V), 1*DO (Relay Mode, up to 30V / 1A)
Log Storage:	1*MicroSD slot, support SD-XC Class 10 (max. 64GB)
USB:	1*USB 2.0
Cellular Band ² :	LTE: 800/900/1800/2100/2300/2600 MHz, UMTS: 850/900/1900/2100 MHz, GPRS/EDGE: 850/900/1800/1900 MHz
Antenna:	2* 3dBi detachable ant. (3G/4G),
Power Source:	DC 9V~48V

WAN Functions

WAN:	Multiple WANs, Failover, Configurable Ethernet/4G
Cellular:	2G/3G/LTE, IP Pass-through
Ethernet:	Dynamic IP, Static IP, PPPoE, PPTP, L2TP
IPv6:	Dual Stack, 6-in-4, 6-to-4

Basic Functions

Ethernet:	LAN IP, Subnet Mask
VLAN:	Port-based, Tag-based
Port Forwarding:	Virtual Server/ Computer, DMZ Host, PPTP/L2TP/IPSec Pass-through
Routing:	Static, Dynamic: RIP1/RIP2, OSPF, BGP
QoS:	Policy-based Bandwidth Control and Packet Flow Prioritization

Object Definition

Scheduling:	Time Schedule List
Grouping:	Host Grouping List
Ext. Server:	Email, Syslog, RADIUS, SCEP, 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, PPTP, L2TP, GRE; 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
Firewall:	SPI Firewall with Stealth Mode, IPS
Access Control:	Packet Filter, MAC Filter

Service

Cellular Toolkit:	SMS, Data Usage, SIM PIN, USSD, Network Scan
Event Handling:	Managing / Notifying Events; DI, DO, SMS, 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)
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Environment

Operation Temp. ³ :	-30 °C ~ 70 °C
Storage Temp.:	-40 °C ~ 85 °C
Humidity:	10% ~ 95% (non-condensing)

Accessory

Package Content	1*Device, 2*Cellular Antenna (3dBi), 1*Terminal Block (2-pin for DC Power), 1*Terminal Block (4-pin for DI/DO), 1*Terminal Block (6-pin for 4*RS232/485), 1*DIN Rail Bracket, 2*Mounting Brackets, 1*Screw Bag, 4*Rubber feet, 1*CD (User Manual)
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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

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1. Specifications are subject to change without prior notice.

2. Supported cellular frequency depends on regional hardware version.

3. 3G/4G performance will be degraded if device's ambient temperature is above 60°C.

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