# Wireless Industry Series

# IOG700-0PCR1
Industry Cellular Gateway

Feature Sets:

- Industry Cellular Gateway for Smart Industry, Smart Utility, Smart City, and Outdoor applications.

- Equip with a dual-SIM HSPA+ module, and provide failover function for highly reliable requirement, without geographic limit.

- 1* FE LAN port with tag based VLAN easily to group control and relocate traffic pattern.

- 1* RJ12 (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 compatible with most IP network.

- IPSec, OpenVPN, PPTP, and L2TP VPN 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.

- QoS and Bandwidth management for optimal bandwidth usage.

- Seamless power failover between redundant 9-48V DC input.

Connection Diagram:
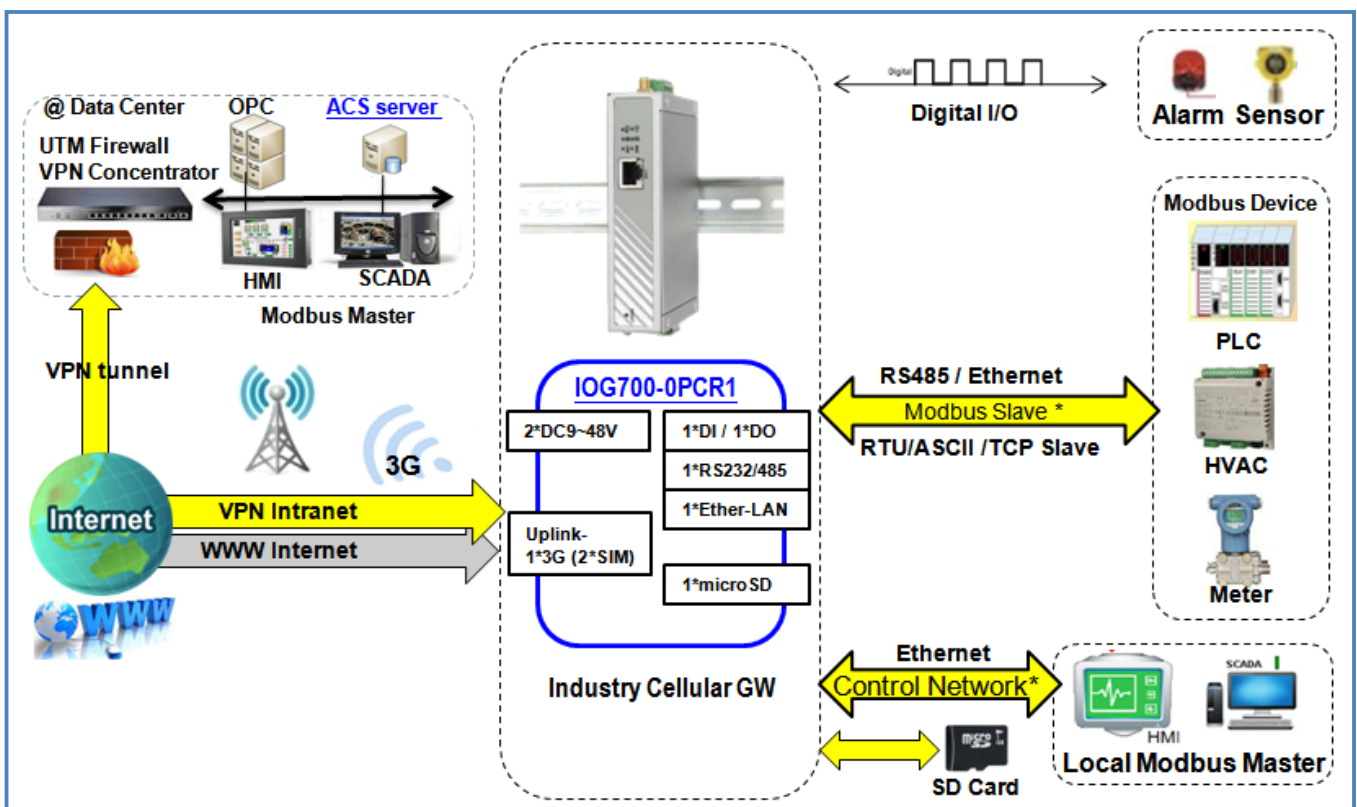
Applications:
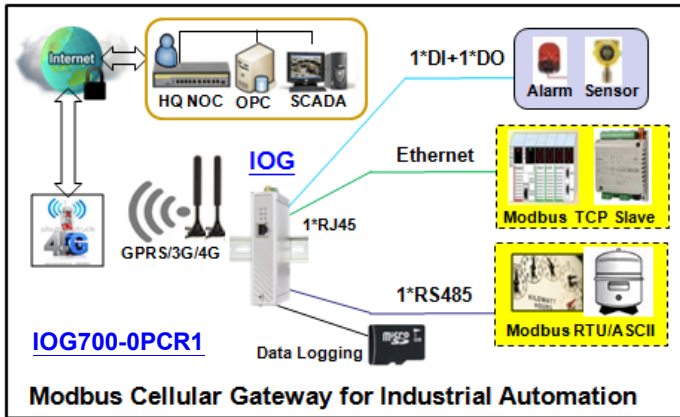
Function: To deploy a modbus cellular gateway for Industrial Automation

Description:
• The easiest way to deploy a modbus cellular gateway for connecting your industrial automation or telemetry equipments to the remote management center.
• With 3G as internet connection, it is plug and play without geographic limit.
• The most cost-effective product for you with robust design for secure internet access, variable voltage range, wide temperature range.
• Easily been managed by AMIT ACS server or management SW.

Specifications[1]:

Device Interfaces

Uplink:	1*HSPA+ module (dual SIM)
LAN-RJ45:	1* RJ45 FE
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)
Log Storage[2]:	1* MicroSD slot
Cellular Band[3]:	UMTS: 850(or 900)/1900/2100 MHz GPRS/EDGE: 850/900/1800/1900 MHz
Antenna:	2* 3dBi detachable ant. (3G/4G)
Power Source:	Dual DC 9V~48V

WAN Functions

WAN:	Cellular WAN, Dual SIM Failover
Cellular:	2G/3G/HSPA+, IP Pass-through

Basic Functions

Ethernet:	LAN IP, Subnet Mask
VLAN:	Tag-based
Port Forwarding:	Virtual Server/ Computer, DMZ Host, PPTP/L2TP/IPSec Pass-through
Routing:	Static, Dynamic: RIP1/RIP2, OSPF, BGP

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
VPN Capability:	IPSec: up to 16 tunnels
Firewall:	SPI Firewall with Stealth Mode, IPS
Access Control:	Packet Filter, URL Blocking, 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)

Environment

Operation Temp.:	-20 ℃ ~ 60 ℃
Storage Temp.:	-40 ℃ ~ 85 ℃
Humidity:	10% ~ 95% (non-condensing)

1. Specifications are subject to change without prior notice.
2. MicroSD card is not included in standard package.
3. Supported cellular band is dependent upon regional hardware version.