AMIT
Enabling Wireless M2M - IoT

4G IIoT Gateway
IOG700-0T501

INTRODUCTION

The IOG700- a 4G IIoT Gateway IIoT telemetry connectivity in one device. With its serial interface and DI/O connections, it supports a variety of legacy serial devices and sensors to transmit data to the remote server. It works in different deployments and meets the requirement for multi-device IIoT telemetry use scenarios.

BENEFITS

1. Equip with RS232/RS485 interface(s) for Modbus RTU and various serial communication protocol, and DI/DO for device triggering or event reporting.
2. Redundant dual SIM offers connection reliability.
3. Equip with multi-mode data logging function and store the collected logs on attached storage for SCADA telemetry. 4.Equip with Ethernet port(s) with tag based VLAN for secondary WAN or backup WAN application
4. Compact in size, also compatible with mounting kits
5. Support AMIT device management platform- A-NMS, monitoring device, connection status and more

KEY FEATURES

✓ 1* 4G (2*SIM)
✓ 2* RJ-45 GbE
✓ 2* RS232/RS485
✓ 1* GNSS
✓ 1* Micro SD
✓ 1* USB
✓ DC 9-36V (DC Jack)

APPICATION

- Oil & Gas Facility
- Elevator
- Port Machinery
- Environmental Monitoring
- Factory Automation
- Surveillance
- SCADA Device

DIAGRAM

Management Platform

a-NMS — Device Monitoring

Data Systems

Cloud Service

Application Server

network status

Internet — data

WAN Failover

VPN

data

MQTT

Wi-Fi

← data →

——	Ethernet
- - -	Cellular-**4G**
▬▬	RS232/485
—·—·	DI/ DO

Terminals & Solutions

- Oil & Gas Facility
- Elevator
- Port Machinery
- Environmental Monitoring
- Factory Automation
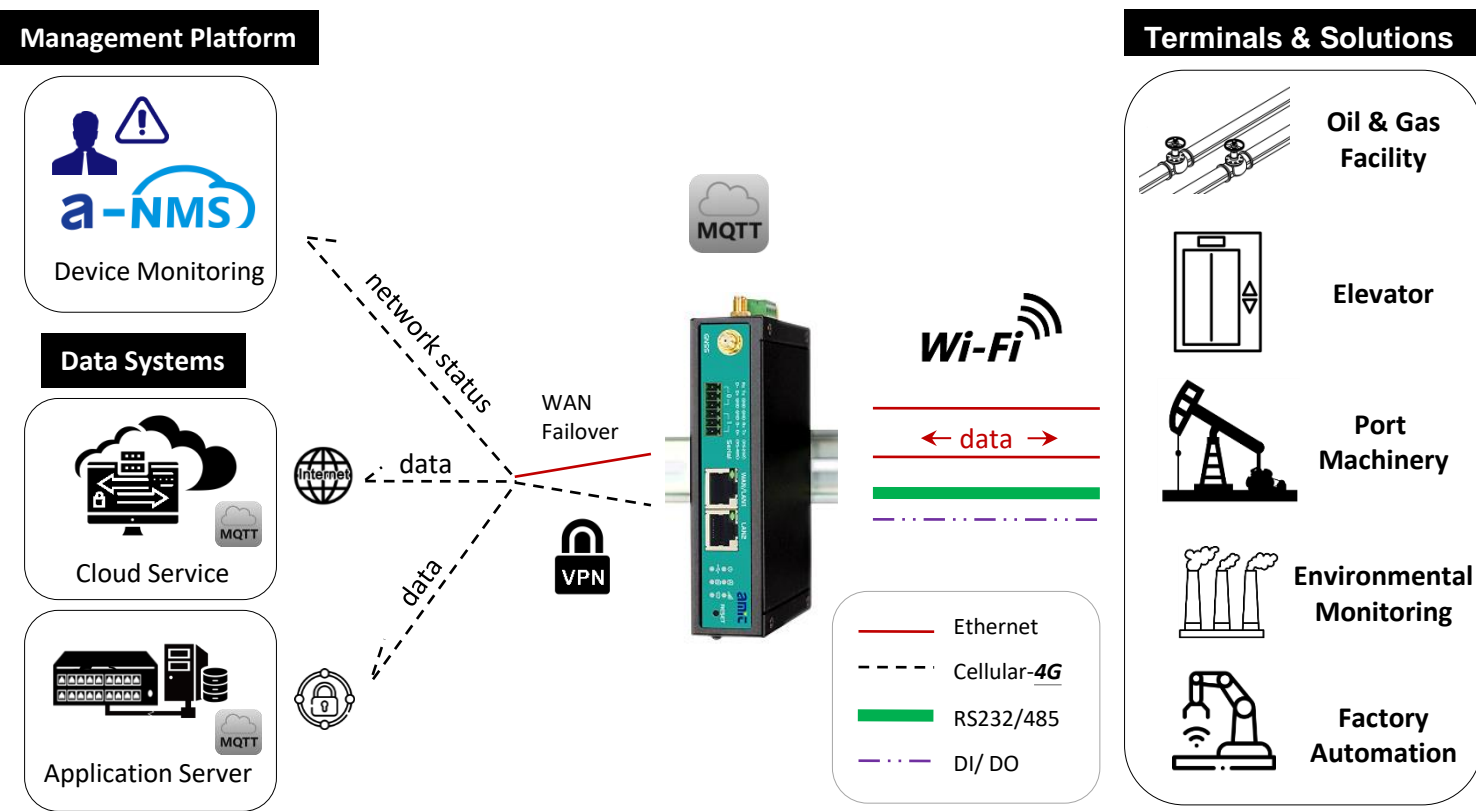
SPECIFICATION

Device Interface
- **LTE Module:** 1*LTE, 2*SIM, with GNSS
- **Ethernet:** 2*RJ45 GE
- **Field Bus:** 2*RS232/485 (Terminal Block)
- **Log Storage**: 1*USB, 1*Micro SD
- **I/O:** 1*DI ("Logic 0": 0~2V, "Logic 1": 5V~30V),
  1*DO (Relay Mode, up to 30V/1A)
- **Power Input :** 1* DC 9V ~ 36V (Terminal Block)
- **Antenna Con.:** 2*SMA (F)-LTE, 1* SMA(F)-GNSS

WAN & Uplink
- **WAN:** Cellular & Config. Ether-WAN; Failover
- **Cellular:** 3GPP, 2G/3G/LTE, IP Pass-through, IPv4/6
- **Ether-WAN:** Dynamic IP, Static IP, PPPoE , PPTP, L2TP
- **Network Monitor:** ICMP/DNS Query

Protocol
- **LAN & VLAN**: DHCP Server/Relay , Port/Tag based VLAN
- **IPv6:** Dual Stack, Static IPv6, DHCPv6, PPPoEv6
- **Port Forward:** NAT 1-1, 1-many, tansversal, DMZ, Virtual Server & Computer, VPN Pass-through
- **Routing:** Static, Dynamic - RIP1/RIP2, OSPF, BGP

Field Comm.
- **Virtual COM**: RFC2217, TCP Client, TCP Server, UDP
- **Modbus:** Gateway for Modbus TCP/RTU/ASCII Master/Slave Access; Slave for Device Status/Information Access
- **Data Logging**: Sniffer, Off-line / Full-time Proxy, mixed modes

Object
- **Scheduling:** Time Schedule List
- **Grouping:** Host Grouping List
- **Ext. Server:** Email, Syslog, RADIUS, SCEP, FTP, DDNS, IGMP
- **Certificate**: My Certificate, Trusted Certificate, Issue Certificate

Service
- **Cellular Toolkit:** Data Usage, SMS, SIM PIN, USSD, Network Scan
- **Event Handling:** User Defined Manage/Notify Event; Action & Trigger by SMS, Mail, Syslog, SNMP Trap, Modbus, I/O
- **GNSS:** GPS Location Tracking

Security
- **VPN Tunneling:** IPSec, OpenVPN, PPTP, L2TP, GRE
- **Scenario:** Site/Host to Site/host; Hub and Spoke; Dynamic VPN
- **VPN Capability**: IPSec: up to 16 tunnels
- **Firewall:** SPI Firewall with Stealth Mode, IPS
- **Access Control:** Packet Filter, MAC Filter

Administration
- **Configuration:** Web UI, CLI, Command Script, Python*
- **Management:** SNMPv3 Std. & AMIT MIB, TR069
- **System:** Upgrade, Backup & Restore, Reboot & Reset, SysLog
- **FTP:** FTP Server, User Account
- **Diagnostic:** Packet Analyzer, Diagnostic Tools

Environment
- **OP/Storage Temp.:**   -30°C ~ 70°C ; -40°C ~ 85°C
- **Humidity:**   10%~95% (non-condensing)
- **Enclosure:**   Metal, DIN-Rail, Bracket (Optional)
- **Dimension:**   31x 99 x131mm (w/o mounting kit)
  31x108x131mm (with DIN Rail kit)

Certificate - CE
- Standards & Regulation
- EMI: EN 55032: 2015 +AC: 2016 Class B
- EMS: EN 55024, IEC 61000
- Radio: EN 301 489, EN 300 328, EN 301 893, EN50385
- Safety: EN 60950-1

Package Contents
- 1*Device
- 1*Power Adapter DC 12V/1A
- 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 2*RS232/485)
- 1*DIN Rail Kit, 1*Screw Bag
- 4*Rubber feet, 1*CD (User Manual)

ORDERING INFORMATION

IOG700-0T501-00-yy : LTE Cat.4

'yy': Area Variant. As below table

yy	SKU	Cellular Band	Module Cert.	System Cert.
E0	EU	B1/3/7/8/20	CE, GCF	CE
U0	US	B2/4	PTCRB, AT&T	TBC
J0	Japan	B1/9/18/19/21	Telec, NTT, KDDI	Telec
J1	Japan	B1/8/41	Telec, Softbank	Telec
T0	Taiwan	B3/7/8/28	NCC	TBC
C0	China	B3/8/39/40/41	MII, SRRC	TBC
A0	Australia	B1/3/5/7/28/40	RCM	TBC

Comment:
- Specifications are subject to change without prior notice.
- Besides CE, other regional certification needs to be checked for availability.

MECHANIC DRAWING

- *Front View*

- *Left View*

- *Bottom View*