

# 4G IIoT Gateway IOG851-0T041



## INTRODUCTION

The IOG851- a 4G IIoT Gateway that includes 4G-LTE cellular capability for wireless uplink/ downlink. It is designed with 5 Gigabit Ethernet ports that allows connection to multiple local devices. It also includes WiFi function to provide wireless connectivity to IoT terminals.

## BENEFITS

1. Designed for mission-critical application or high bandwidth location
2. Redundant dual SIM offers connection reliability.
3. Dual Module as dual WAN uplink can support seamless failover
4. Web UI for basic settings; programmable CLI and command script for advanced configuration; NMS based on SNMP or TR-069; configurable SMS administration.
5. Support AMIT device management platform- A-NMS, monitoring device, connection status and more

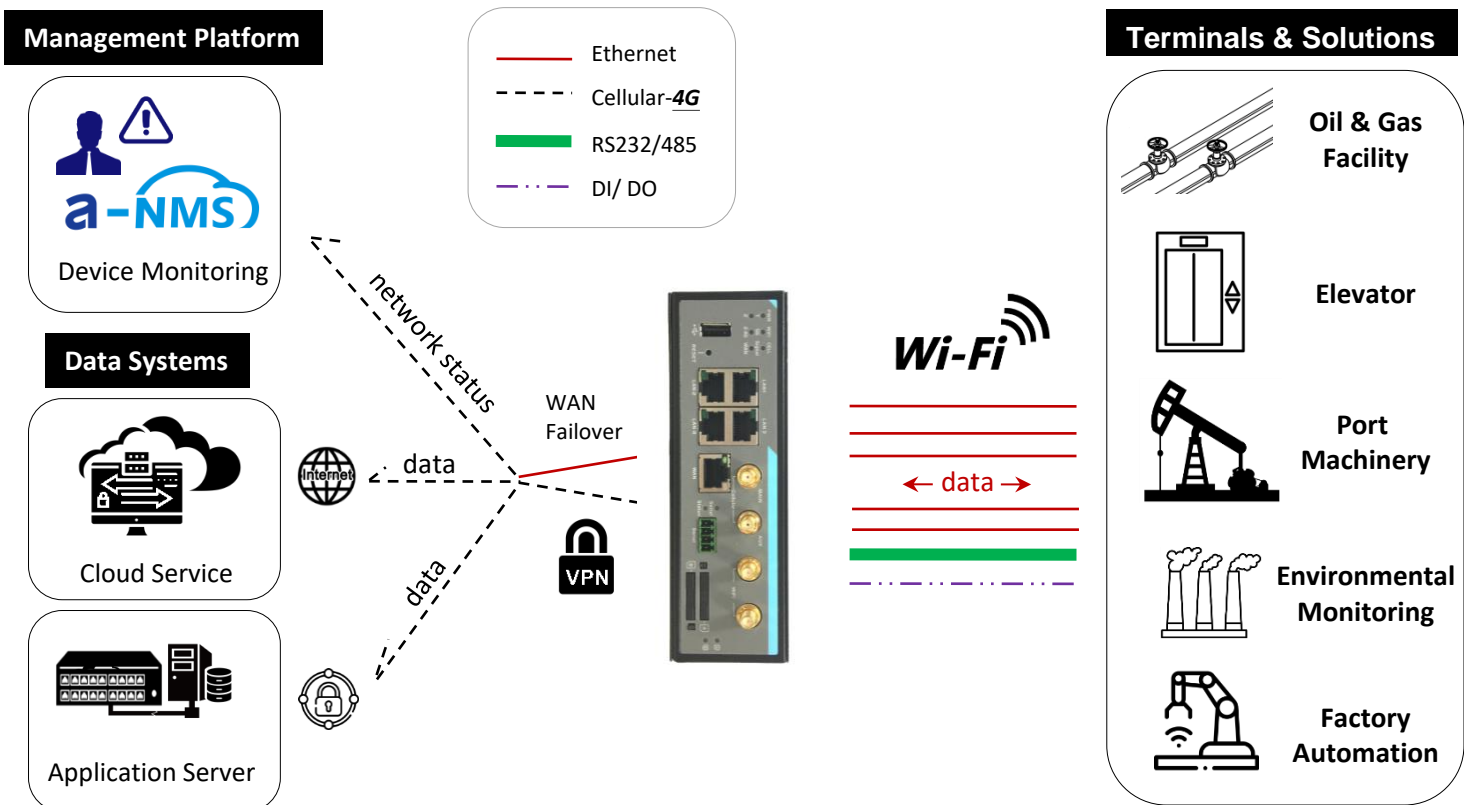
## KEY FEATURES

- ✓ 1\* 4G (2\*SIM)
- ✓ 1\* RJ-45 GE WAN
- ✓ WiFi 2T2R 2.4GHz/5GHz
- ✓ Dual DC 24-56V (TB)

## APPLICATION

- Industrial IoT and networking
- System cloud integration
- Smart City and ITS
- Remote monitoring

## DIAGRAM



# Specification Summary

## Device Interface

- **4G Module:** 1\*LTE, 2\*SIM (2FF)
- **Ethernet:** 5\*RJ45 GE
- **WiFi:** 1\*11a/b/g/n/ac-2\*2 2.4G/5GHz Selectable WiFi
- **Field Bus:** 1\*RS232/485 (Terminal Block)
- **Log Storage:** 1\*USB
- **I/O:** 1\*DI ("Logic 0": 0~2V, "Logic 1": 5V~30V), 1\*DO (Relay Mode, up to 30V/1A)
- **Power Input :** 2\* DC 12V ~ 48V (Terminal Block)
- **Antenna Con.:** 2\*SMA (F)-4G, 2\*SMA(M)-WiFi

## WAN & Uplink

- **WAN:** Cellular & Config. Ether-WAN; Failover, Load Balance
- **Cellular:** 3GPP, 2G/3G/4G, IP Pass-through, IPv4/6
- **Ether-WAN:** Dynamic IP, Static IP, PPPoE , PPTP, L2TP
- **Network Monitor:** ICMP/DNS Query

## WiFi

- **Standard:** 802.11 Industry Compliance
- **Mode:** AP Router
- **Functions:** Multi-SSID, WMM
- **Security:** WEP, WPA, WPA2, WPA-PSK, WPA2-PSK, 802.1x

## Protocol

- **LAN & VLAN:** DHCP Server/Relay, Port/Tag based VLAN
- **IPv6:** Dual Stack, Static IPv6, DHCPv6, PPPoEv6
- **Port Forward:** NAT 1-1, 1-many, transversal, DMZ, Virtual Server & Computer, VPN Pass-through
- **Routing:** Static, Dynamic - RIP1/RIP2, OSPF, BGP
- **QoS:** Policy-based, 802.1q and TOS for priority queues

## Field Comm.

- **Virtual COM:** TCP Client, TCP Server, UDP
- **Modbus:** Gateway for Modbus TCP/RTU/ASCII Master/Slave Access; Slave for Device Status/Information Access
- **Data Interchange:** OPC UA Server, MQTT Broker, MQTT Client
- **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

## 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, URL Blocking, 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

## Service

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

## Environment

- **OP/Storage Temp.:** -30°C ~ 70°C ; -40°C ~ 85°C
- **Humidity:** 10%~95% (non-condensing)
- **Enclosure:** Metal, DIN-Rail, Bracket (Optional)
- **Dimension:** 52x125x160mm (w/o mounting kit) 52x135x160mm (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 Accessory

- 1\*Device
- 1\*Terminal Block (8-pin for DC Power & DI/DO)
- 1\*Terminal Block (4-pin for serial port)
- 1\*RJ45 Cable
- 1\*DIN Rail Kit, 1\*Screw Bag

## SKU Information:

### IOG851-0T041-00-yy : LTE Cat.4

'yy': Area Variant. As below table

yy	Skew	Module Certification
E0	EU	Ready
U0	US	Ready
JO	Japan	Ready
T0	Taiwan	Ready

#### Comment:

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

## Mechanic Drawing

(1) Front View



(2) Left View



## AMIT Wireless Inc.

TEL: +886 (0)6 505 8026 FAX: +886 (0)6 505 8068

Web: <https://www.amitwireless.com.tw> Email: [sales@amit.com.tw](mailto:sales@amit.com.tw)

No. 28, Lane 31, Huandong Rd., Sec. 1, Xinshi Dist., Tainan City 74146, Taiwan (R.O.C.)