

IOG761-0G2B3

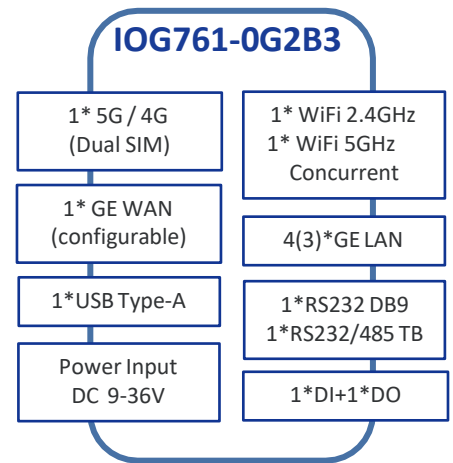
5G/4G IIoT WiFi5 Gateway



As 5G technology growing up, the next generation cellular 5G makes new features of the network with higher bandwidth and lower latency. IOG761-0G2B3 is an IIoT gateway for 5G/4G network. It has gigabit level via 5G and fixed ether-net. The IOG761 is optimized to acquire, process and filter large amount of real-time data. It creates secure IIoT system and enables cloud integration providing full operational control over field devices from any place in the world. The cost-effective industrial network solution is easy to scale connecting wide range of assets as systems, logic controllers, actuators, and sensors.

Applications:

- IIoT/AIoT and networking
- System cloud integration
- Smart City and ITS
- Remote monitoring
- IT Machine



High-Speed Network



- 5G NR / 4G LTE Network, WiFi 5 AP
- Giga-Ethernet

Industrial IoT & cloud integration



- HTTP/HTTPS, MQTT, Data Logging
- Virtual COM, Modbus TCP/RTU/ASCII

Robust low-latency networking

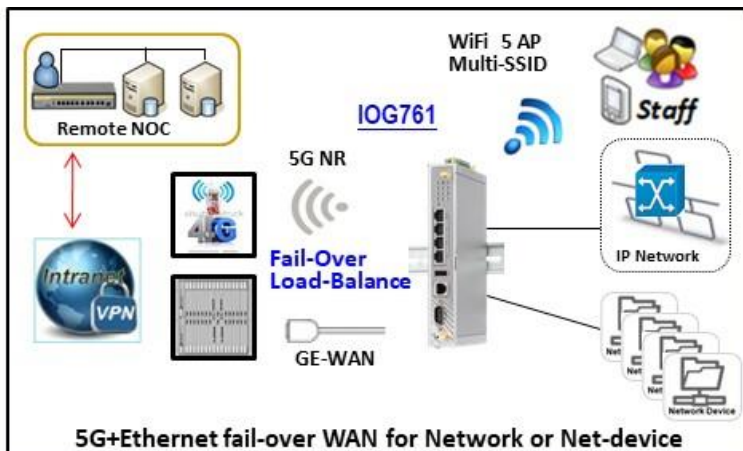
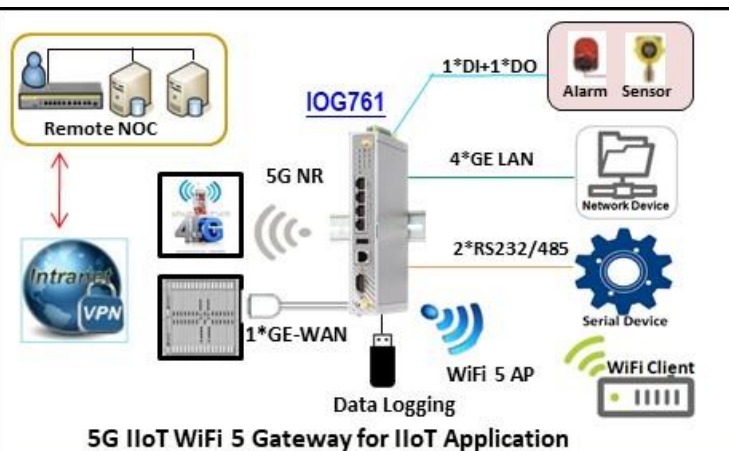


- Multi-WAN Failover / Load Balance
- WiFi 5 2.4/5GHz Dual Band

Data & access security



- VPN, Firewall, TR-069, SNMP Remote
- VLAN grouping, I/O ports disablement



Specification Summary

Device Interface

- **5G Module:** 1*5G NR / 4G LTE, 2*mini-SIM (2FF)
- **Ethernet:** 4*RJ45 GE Ports
- **WiFi:** 1*2x2 2.4GHz 802.11 b/g/n , 1*2x2 5GHz 802.11ac
- **Field Bus:** 1*RS232(Full/DB9) + 1*RS-232(Lite)/485 (Terminal Block)
- **Log Storage:** 1*USB 2.0 Type-A
- **I/O:** 1*DI (Isolated, "Logic 0": 0~2V, "Logic 1": 5V~30V)
1*DO (Relayed Output, 30V/1A for each port)
- **Power Input:** 1* DC 9V ~ 36V (Terminal Block)
- **Antenna Con.:** 4*SMA (F)-5G/4G, 2*SMA (M)-WiFi

WAN & Uplink

- **WAN:** Cellular & Config. Ether-WAN; Failover, Load Balance
- **Cellular:** 5G/4G, SA/NSA, 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:** Static IPv6, DHCPv6
- **Port Forward:** 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 Interchange:** MQTT Broker, MQTT Client
- **Modbus Data Logging:** Sniffer, Off-line, Full-time Proxy, mixed modes

Security

- **VPN Tunneling:** IPSec, OpenVPN, PPTP, L2TP, GRE
- **Scenario:** Site/Host to Site/host, Dynamic VPN
- **VPN Capability:** Up to 8 tunnels
- **Firewall:** SPI Firewall with Stealth Mode, IPS
- **Access Control:** Packet Filter, URL Blocking, MAC Control

Administration

- **Configuration:** Web UI, Telnet/SSH, CLI, Command Script
- **Management:** SNMPv3 Std. & AMIT MIB, TR069
- **System:** Upgrade, Backup & Restore, Reboot & Reset, SysLog
- **Diagnostic:** Packet Analyzer, Diagnostic Tools

Service

- **Cellular Toolkit:** Data Usage, SMS, SIM PIN, Network Scan

Environment

- **OP/Storage Temp.:** -30°C ~ 60°C; -40°C ~ 85°C
- **Humidity:** 10%~95% (non-condensing)
- **Enclosure:** Metal, Bracket/Din-Rail
- **Dimension:** 187x110x31mm (w/o mounting kit)
31x120x187mm (with DIN Rail kit)
225x110x 39mm (with Bracket kit)

Certificate - CE

- Standards & Regulation
- EMI: EN 55032: 2015 +AC: 2016 Class B, EN61000-3/-6
- EMS: EN 55024, IEC 61000-4, IEC 61000-6
- Radio: EN 300 328, EN 301 489, EN 301 839, EN 50385
- Safety: EN 60950, EN 62368-1

Package Accessory

- 1*Device, 1*Power Adapter (12V/2A)
- 4*Cellular Antenna, 2*WiFi Antenna
- 2*Terminal Block (for DC Power and DI/DO, Serial port)
- 1*RJ45 Cable
- 1*DIN Rail Kit, 1*Screw Bag

ORDERING INFORMATION

Country	Band
Global	5G Sub-6G(SA or NSA): n1/n2/n3/n5/n7/n8/n12/n13/n14/n20/n25/n26/n28/n29/n30/n38/n40/n41/n48/n66/n71/n75/n76/n77/n78/n79 DL 4 x 4 MIMO: n1/n2/n3/n7/n25/n30/n66/n38/n40/n41/n48/n77/n78/n79 UL 2 x 2 MIMO (SA only): n38/n41/n48/n77/n78/n79/ FDD-LTE Bands: B1/B2/B3/B4/B5/B7/B8/B12/B13/B14/B17/B18/B19/B20/B25/B26/B28/B29/B30/B32/B66/B71 TDD-LTE Bands: B34/B38/B39/B40/B41/B42/B43/B48 DL 4 x 4 MIMO: B1/B2/B3/B4/B7/B25/B30/B38/B40/B41/B42/B43/B48/B66
EU	5G Sub-6G(SA or NSA): n1/n3/n5/n7/n8/n20/n28/n38/n40/n41/n71/n75/n76/n77/n78 DL 4 x 4 MIMO: n1/n3/n7/n38/n40/n41/n77/n78 UL 2 x 2 MIMO (SA only): n38/n40/n41/n77/n78 FDD-LTE Bands: B1/B3/B5/B7/B8/B20/B28/B32/B71 TDD-LTE Bands: B38/B40/B41/B42/B43 DL 4 x 4 MIMO: B1/B3/B7/B38/B41/B42/B43
Regulatory	CE/ FCC/ JATE/ TELEC/ NCC

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 :



3) Right View :



AMIT Wireless Inc.

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

Web: <http://www.amitwireless.com> Email: sales@amit.com.tw

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