



5G Transit Gateway VHG87B-0G018

INTRODUCTION

The VHG87B is a 5G advanced WiFi 6 Gateway which includes 5G-NR and LTE dual-mode cellular capability. It also supports Mounting kits to deploy easily in Mobile environments.

Product Summary as follows:

1. Cellular 5G and WiFi6 MIMO wireless in ONE device
2. Redundancy dual SIM offers connection reliability
3. Dual Image and self recovery function works when an abnormality is detected or unmanned

KEY FEATURES

- ✓ 1* 5G/LTE (2*SIM)
- ✓ 4* RJ-45 GbE
- ✓ WiFi 6 AX1800 DBDC
- ✓ TB 9-36V in
- ✓ Ignition Sense
- ✓ GPS Receiver
- ✓ EN50155

APPLICATION

- Wireless for Railway
- 4K/8K instant transmission
- WiFi Hotspot
- Smart City/Factory
- Carrier/Private 5G network

High-Speed & Stability



- 5G-NR Sub-6G, WiFi 6 DBDC
- Giga speed for upload and download

Various Interfaces



- GbE RJ-45 & WiFi 2.4GHz & 5GHz
- Location tracking

Robust Low-Latency



- Follow 3GPP R.16
- Wireless MIMO

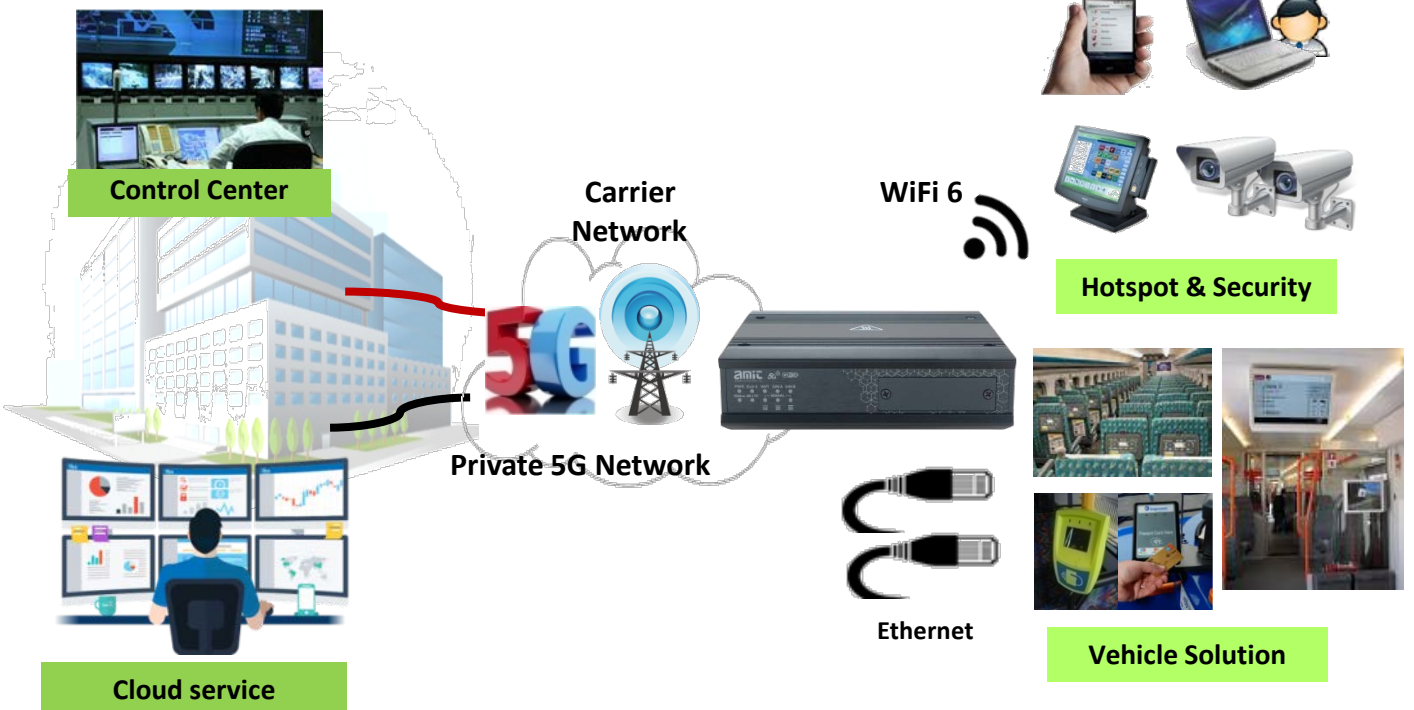
Easy Installation



- Mounting Kit
- Power Range 9-36V

Remote Control

Terminals and solutions



SPECIFICATION

Device Interface

- **Cellular Module:** 1*5G/LTE 3GPP Rel. 16,2*SIM (Nano SIM)
- **Ethernet:** 4*RJ45 GE
- **WiFi:** WiFi 6 AX1800
- **GNSS:** GPS/GIONASS
- **Power Input:** 1* 9-36V TB, Power Consumption: max. 15W
- **Antenna Con.:** 4*SMA(F)-5G/LTE,2*SMA(RP-F)-WiFi, 1*SMA(F)-GPS

WAN & Uplink

- **WAN:** Cellular & Config. Ether-WAN, Failover
- **Cellular:** 5G NR Sub-6G/LTE
- **Ether-WAN:** Dynamic IP, Static IP, PPPoE
- **Network Monitor:** ICMP Check/DNS Query

Protocol

- **LAN & VLAN:** DHCP Server/Relay ,VLAN
- **Port Forward:** NAT 1-1, 1-many, DMZ, Virtual Server , VPN Pass-through
- **Routing:** Static, Dynamic - RIP1/RIP2,OSPF

Wireless

- **Standard:** IEEE 802.11ax/ac/n/g/b/a/h
- **Function:** Multi SSID, Auto Channel Selection, Station Isolation
- **Security:**WPA2-PSK (AES),WPA/WPA2-PSK(TKIP/AES),WPA2/WPA3-PSK(AES/SAE),Enterprise
- **Advanced Function:** WIDS, MU-MIMO, Band Steering

Service

- **Cellular Toolkit:** Data Usage, SIM PIN
- **Scheduling:** System Reboot, Function On/Off
- **GNSS:** GPS Location Tracking / Viewer
- **Power Control:** Ignition Sense

Security

- **VPN Tunnel:** IPSec, WireGuard, OpenVPN, PPTP, L2TP, GRE
- **VPN Usage:** Site/Host, Client/Server
- **Firewall:** Stealth Mode, IPS, Block WAN Ping
- **Access Control:** Packet Filter, URL Blocking, MAC Filter

Management

- **Configuration:** Web UI, CLI, Command Script
- **Management Tool:**SNMPv3 Std. & AMIT MIB ,TR-069
- **System:** Upgrade, Backup & Restore, Reboot & Reset, SysLog

- **Diagnostic:** Diagnostic Tools

Status

- **Dashboard:** System Information
- **Network Status:** Connection information, Cellular Signal Quality
- **Cellular Mobile:** Signal Quality, IMEI/MEID, Usage Band
- **Security:** VPN Status, Firewall, QoS
- **Management:** SNMP&TR-069 Status, Network access, Cellular usage

Environment

- **OP/Store Temp.:** -30°C ~ 60°C , -40°C ~ 85°C
- **Humidity:** 10%~95% (non-condensing)
- **Dimension:** 160 x 125 x 47mm

Accessory

- 1*Device
- 4*Cellular Ant, 2*WiFi Ant (5dBi)
- 1*3 Pin Terminal Block for DC Power

ORDERING INFORMATION

Country	Band
EU,TW,Asia,US	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 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/n40/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
Regulatory	NCC/CE/ FCC/ JATE/ TELEC
Carrier	

MECHANIC DRAWING

•Front View



•Back View



Comment

- Specifications are subject to change without prior notice.

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