

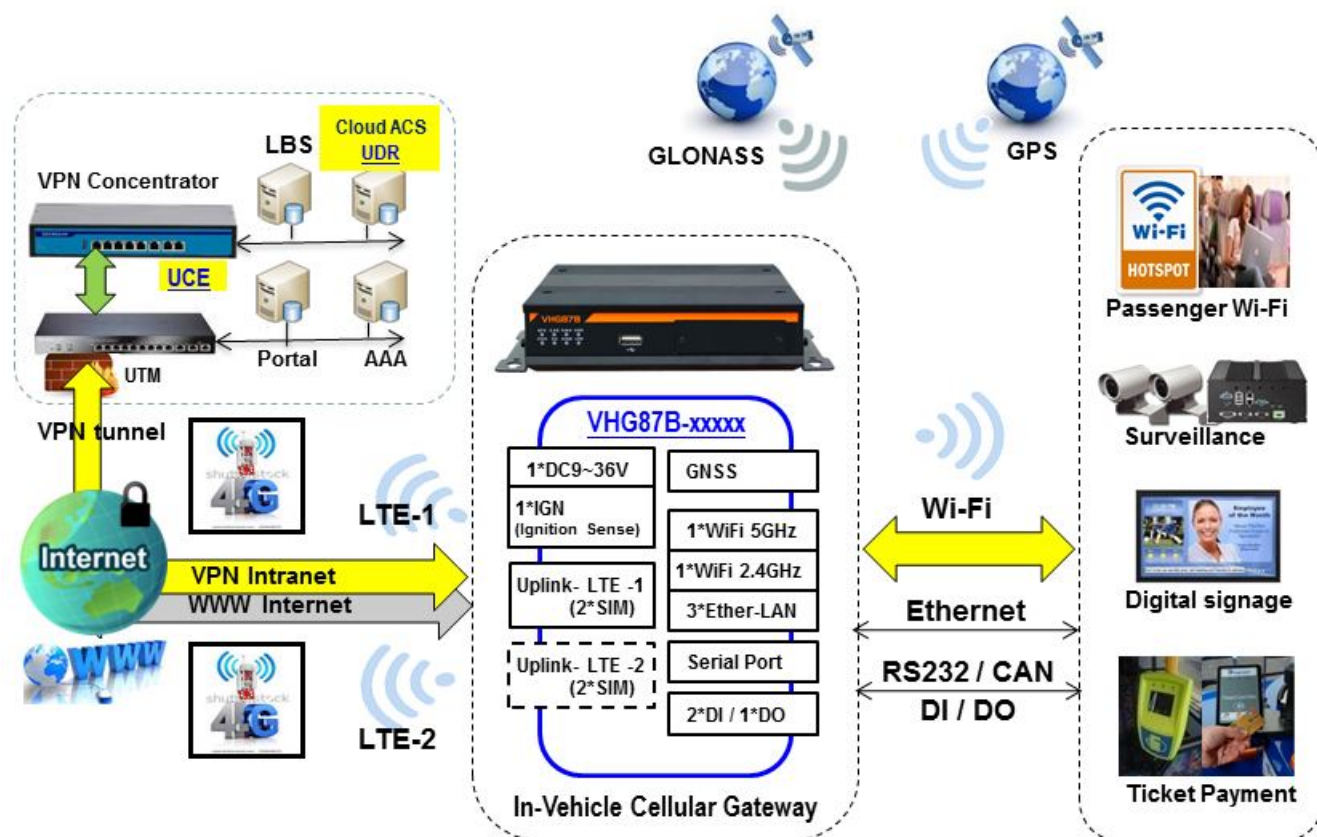


In-Vehicle Cellular Gateway

Feature Sets:

- **In-Vehicle Applications:** LTE connection, GNSS fleet tracking, remote management of electronic equipment on-board, and Wi-Fi Internet access for passengers.
- **Dual SIM:** location free reliable connectivity with multi-ISP fail-over.
- **Versatile Cellular:** Uplink settings by service provider; data usage control.
- **Complete Network:** Built-in NAT/Port Forward/Routing/IPv6 are compatible with existing IP networks.
- **Wi-Fi Hotspot:** IEEE 802.11 a/b/g/n/ac compliant; multiple SSIDs; captive portal.
- **High Security:** Various VPN protocols & scenario; built-in Firewall & IPS; ACL & Authentication by MAC/User to enhance access security.
- **Flexible Administration:** Web UI for basic settings; programmable CLI and Command Script for advanced configuration; NMS based on SNMP or TR-069; configurable SMS administration.
- **Smart Event Handling:** Mechanism to manage pre-defined events by administrator. Events triggered by System/Interface status change, and notification sent by SMS, SNMP trap, or e-mail.
- **Ruggedized Design:** Vibration and shock proof, extended operational temperature range, variable power input installation with ignition sense and cranking amps.

Connection Diagram:



Product Specification¹:

VHG87B	-0T1B0	-0T1B1	-LT1B1
Uplink – Cellular	1* LTE cat.4 (dual SIM)		2* LTE cat.4 (2+2 SIM)
	(LTE: 800/900/1800/2100/2300/2600MHz; UMTS: 850/900/1900/2100MHz; GPRS/EDGE: 850/900/1800/1900MHz) ²		
LAN - RJ45	3*RJ45 GE		
WLAN - WiFi	IEEE 802.11b/g/n (2.4GHz) + 802.11a/n/ac (5GHz), 2T2R MIMO		
GNSS	GPS Receiver	GPS + GLONASS Receivers	
Serial Port	1*RS232 (TX/RX)	1*RS232 (TX/RX)	1*RS232 (TX/RX)
Input / Output	2* Digital In (“Logic 0”: 0~1V, “Logic 1”: 5V~30V), 1* Digital Out (Relay Mode, up to 12W); 1*IGN for Ignition Sense		
Log Storage	1*USB 2.0	8GB, 1*USB 2.0	8GB
Power Source	1* DC 9V ~ 36V (Terminal Block), Power Consumption: max. 18.5W @ no DO driving		

WAN	Multiple WANs, Failover/Load Balance
WiFi LAN	AP Router, WDS, WDS Hybrid Modes
VLAN	Port-based, Tag-based VLAN
Port Forwarding	Virtual Server/ Computer, DMZ Host, PPTP/L2TP/IPSec Pass-through
Routing	Static, Dynamic: RIP1/RIP2, OSPF, BGP
Virtual COM	RFC2217, TCP Client, TCP Server, UDP
VPN	IPSec, OpenVPN, PPTP, L2TP, GRE
Firewall	SPI Firewall with Stealth Mode, IPS
Access Control	Packet Filter, URL Blocking, MAC Filter, Content Filter, Application Filter
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
Authentication	Captive Portal, MAC Authentication
Configure & Management	Web, Telnet CLI, Command Script, TR-069, SNMPv3 standard & AMIT MIB
System Operation	MMI, System Information, System Time / Log, Backup & Restore, Reboot & Reset
FTP	FTP Server, User Account
Diagnostic	Packet Analyzer, Diagnostic Tools
Location Track	GNSS, Track Viewer
Dimension (LxWxH)	160x125x47mm (w/o mounting kit) 200x125x 50mm (with mounting kit)
Temperature ³	Operational: -20℃ ~ 60℃ (-0T1B0 only); -30℃ ~ 70℃ (except -0T1B0); Storage: -40℃ ~ 85℃
Humidity	10% ~ 95% (non-condensing)

Device Interface:

(1) Front View



(2) Rear View



(Note: Interfaces may vary depending on models.)

Accessory List:

(1) Package Contents

- 1*Device, 2/4*Cellular Antenna (3dBi), 2*WiFi Antenna (5dBi),
- 1*Terminal Block (8-pin for DC Power, IGN, DI/DO, RS232),
- 2*Mounting Brackets, 1*Screw Bag,
- 1*RJ45 Cable, 1*CD (User Manual);
- 1*active GPS Antenna (except -0T1B0)

Certification:

(1) Approval / Certificates

CE, E-Mark

(2) Standards & Regulation

- EMI: EN 55032: 2015 +AC: 2016 Class B
- EN 61000-3-2:2014, 61000-3-3:2013
- CISPR 25 Radiated Emission (ECE R10)
- EMS: EN 55024:2010+A1:2015

- EN 61000-6-2:2005+AC:2005
- IEC 61000-4-2(ESD) Level 4
- IEC 61000-4-3(RS) Level 4
- IEC 61000-4-4(EFT) Level 4
- IEC 61000-4-5 (Surge) Level 3
- IEC 61000-4-6 (CS) Level 3
- IEC 61000-4-8 (PFMF) Level 4
- ISO 7637-2(2004) (ECE R10)

- Radio: EN 301 489-1/-17/-24/52, EN 300 328 V2.1.1
- EN 301893 V1.8.1, EN 50385
- Safety: EN 60950-1

1. Specifications are subject to change without prior notice.
2. Supported cellular frequency depends on regional hardware version.
3. 3G/4G and WiFi performance will be degraded if device's ambient temperature is above 60℃.

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