

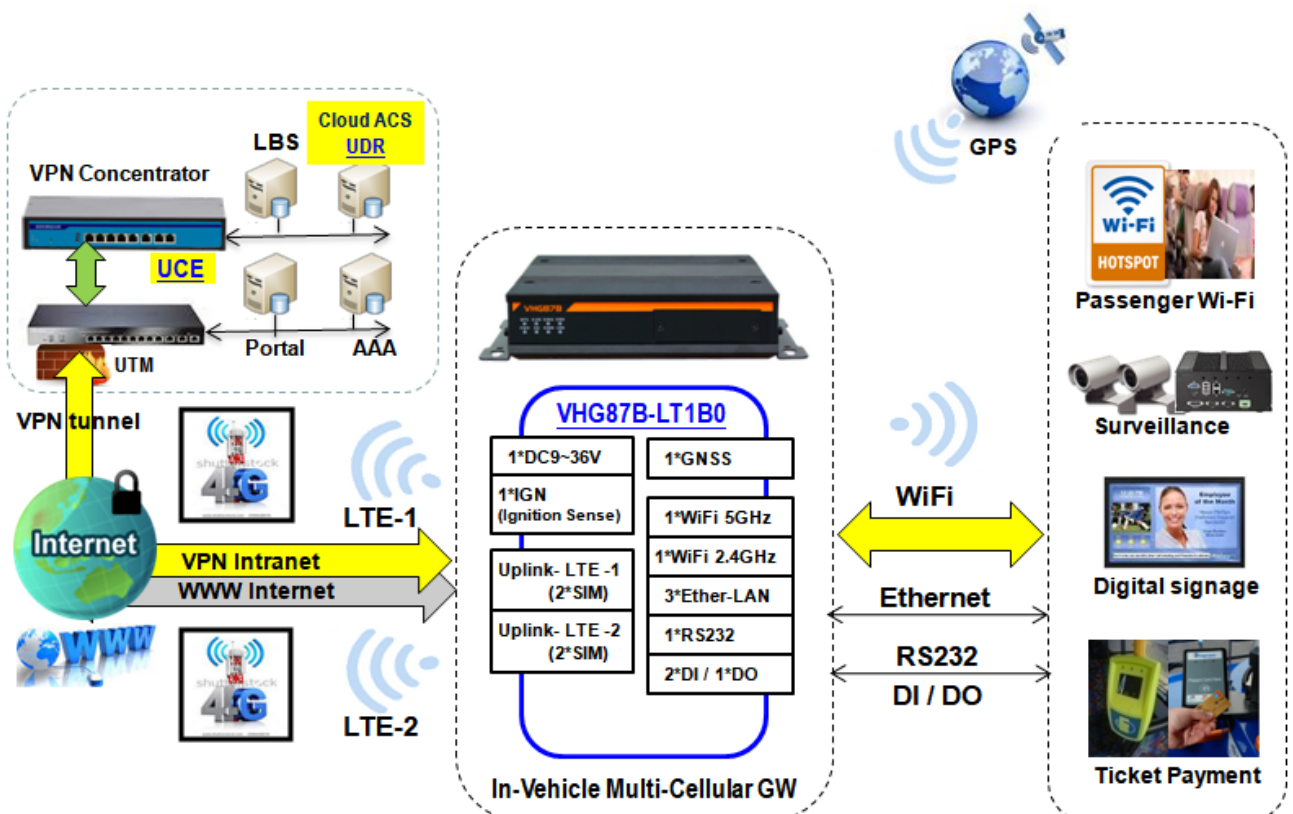


In-Vehicle Multi-Cellular Gateway

Feature Sets:

- **In-Vehicle Applications:** LTE connection, GNSS fleet tracking, remote management of electronic equipment on-board, and WiFi Internet access for passengers.
- **Dual Cellular / Dual SIM:** location free reliable connectivity with multi-ISP load balance and 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.
- **WiFi 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:



Specifications¹:

Device Interfaces

Uplink: 2*LTE module (2+2 SIM)
LAN-RJ45: 3*RJ45 GE
LAN-WiFi: Concurrent Dual Band with
802.11n 2T2R (2.4GHz), and
802.11ac 2T2R (5GHz)
Comm. Bus: 1*RS232 (Tx / Rx)
I/O: 2*DI, 1*DO, 1*IGN (Ignition Sense)
GNSS: 1*GPS Receiver
Log Storage: 1*embedded 8GB Storage
Cellular Band²: LTE: 800/900/1800/2100/2300/2600 MHz,
UMTS: 850/900/1900/2100 MHz
GPRS/EDGE: 850/900/1800/1900 MHz
Antenna: 4*3dBi LTE ant., 2*5dBi WiFi DB ant.
1*SMA Jack(F) for GNSS ant.
Power Source: DC 9V~36V

WAN Functions

WAN: Dual 3G/4G WAN, Failover / Load Balance
Cellular: 2G/3G/LTE, IP Passthrough
IPv6: Dual Stack, 6-in-4, 6-to-4

Basic Functions

Ethernet: LAN IP, Subnet Mask
WiFi Operation: AP Router, WDS, WDS Hybrid Modes
WiFi Security: WEP, WPA, WPA2, WPA-PSK, WPA2-PSK, 802.1x
VLAN: Port-based, Tag-based
Port Forwarding: Virtual Server/ Computer, DMZ Host,
Special AP & APG, VPN Pass-through
Routing: Static, Dynamic: RIP1/RIP2, OSPF, BGP
QoS: Policy-based Bandwidth Control and Packet
Flow Prioritization

Object Definition

Scheduling: Time Schedule List
User: User List, User Profile, User Group
Grouping: Host Grouping List
Ext. Server: Email, Syslog, RADIUS, LDAP, FTP
Certificate: My Certificate, Trusted Certificate,
Issued Certificate

Field Communication

Virtual COM: RFC2217, TCP Client, TCP Server, UDP

Security

VPN Tunneling: IPSec, OpenVPN, PPTP, L2TP, GRE;
Tunneling with Full Tunnel, Tunnel Failover
VPN Scenario: Site to Site, Site to Host, Host to Site, Host
to Host, Hub and Spoke, Dynamic VPN
Firewall: SPI Firewall with Stealth Mode, IPS
Access Control: Packet Filter, URL Blocking, MAC Filter
Content Filter, Application Filter
Authentication: Captive Portal, MAC Authentication

Service

Cellular Toolkit: SMS, Data Usage, SIM PIN, USSD,
Network Scan
Event Handling: Managing / Notifying Events; DI, DO, SMS,
Syslog, SNMP Trap, Email Alert, Reboot
Location Tracking: GNSS, Track Viewer
Power Control: Ignition Sense for delay OFF

Administration

Config.& Mgmt.: Web, Telnet CLI, Command Script, TR-069,
SNMPv3 standard & AMIT MIB
System Op.: MMI, System Info., System Time / Log,
Backup & Restore, Reboot & Reset
Diagnostic: Packet Analyzer, Diagnostic Tools

Dimension

Device (LxWxH): 160x125x47mm (w/o mounting kit)
200x125x50mm (with mounting kit)

Environment

Operation Temp.³: -30 °C ~ 70 °C
Storage Temp.: -40 °C ~ 85 °C
Humidity: 10% ~ 95% (non-condensing)

Accessory

Package Content
1*Device,
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*CD (User Manual);

Certification

Approval / Certificate
CE, E-Mark
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 3
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
Vibration & Shock: MIL-STD-810G

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°C.

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VHG87B-LT1B0 Datasheet V1.7d