

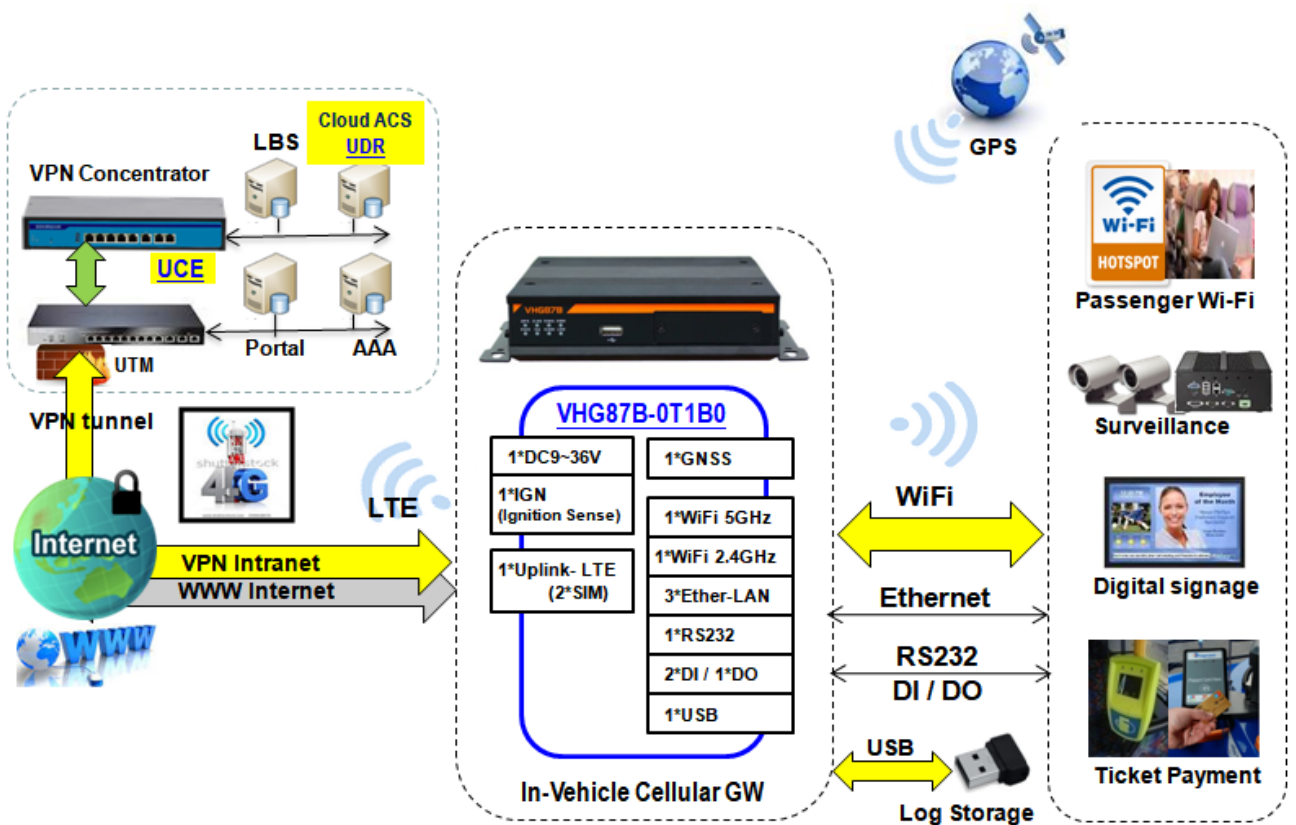


In-Vehicle Cellular Gateway

Feature Sets:

- **In-Vehicle Applications:** LTE connection, GNSS fleet tracking, remote management of electronic equipment on-board, and WiFi Internet access for passengers.
- **Dual 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.
- **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:	1 x LTE module (dual SIM), 1 x 11ac (5GHz) WiFi Uplink
LAN-RJ45:	3 x RJ45 GE
LAN-WiFi:	Concurrent Dual Band with 802.11n 2T2R (2.4GHz), and 802.11ac 2T2R (5GHz)
Comm. Bus:	1 x RS232 (Tx / Rx)
I/O:	2 x DI, 1 x DO, 1 x IGN (Ignition Sense)
GNSS	1 x embedded GPS Receiver
Log Storage:	1 x USB 2.0
Cellular Band ² :	LTE: 800/900/1800/2100/2300/2600 MHz, UMTS: 850/900/1900/2100 MHz GPRS/EDGE: 850/900/1800/1900 MHz
Antenna:	2 x 3dBi LTE ant., 2 x 5dBi WiFi ant. 1 x SMA Jack(F) for GNSS ant.
Power Source:	DC 9V~36V

WAN Functions

WAN:	3G/4G WAN, WiFi Uplink
Cellular:	2G/3G/LTE, IP Passthrough
WiFi:	11ac (5GHz) WiFi Uplink
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
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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)
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Environment

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

Accessory

Package Content	1 x Device, 2 x Cellular Antenna (3dBi), 2 x WiFi Antenna (5dBi), 1 x Terminal Block (8-pin for DC Power, IGN, DI/DO, RS232), 2 x Mounting Brackets, 1 x Screw Bag, 1 x CD (User Manual);
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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.