

High-performance, Powerful, Programmable

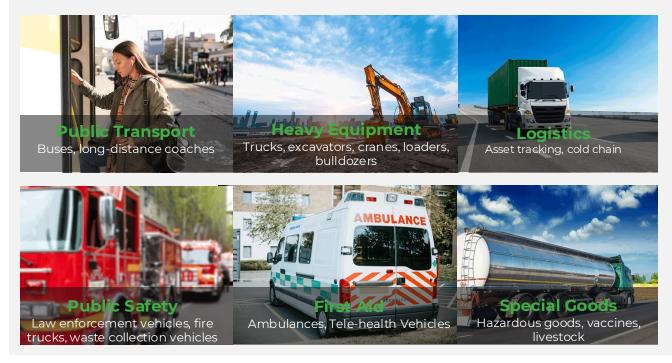
VG710 5G Vehicle Gateway

• 5G • Wi-Fi 5 • Telematics

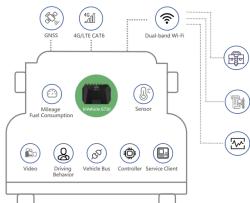
The InVehicle G710 gateway provides high-speed and secure network access for vehicles and transportation services, including special-purpose, heavy equipment, law enforcement, emergency, engineering and ambulance vehicles. The cloud-based fleet management platform provides continuous supervision for logistics management, asset tracking, mobile offices and government security works.

The InVehicle G710 has industrial grade hardware platform, high-speed Wi-Fi and 5G WAN to provide fast, reliable and secure network access for vehicles and vehicle mounted devices. It supports CAN bus for real-time collection of vehicle data; built-in advanced satellite navigation system for continuous accurate positioning; combining with remote analysis software, it supports monitoring of dangerous driving behaviors.

The gateway is embedded with powerful edge computing capability and supports fast custom development by Python and C/C++. It also supports MS Azure and AWS IoT clouds.



Solution









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Features and Advantages

Robust network access capability

Supports 5G both standalone (SA) and nonstandalone (NSA) modes. Download speed up to 2.1Gbps and upload speed up to 450 Mbps. Support TDD and FDD two modes, backward compatible with 4G/3G.

• Vehicle diagnostics collection

Integrates multiple interfaces including OBD-II and J1939 to collect vehicles diagnostics, and API interface to upload the data to the application platform in real time. By analyzing the diagnostic data, the application platform can timely detect health issues of vehicles, shorten response duration.

• Global satellite positioning

72-channel high-precision high-sensitivity global satellite positioning system.

• Designed for vehicles

Designed for challenging operating environments in vehicles. Industrial-grade processor chip ensures continuous operation on-board vehicles. IP64 protection, resistant to challenging conditions like water splash, dust, shock, vibration, damp heat and high and low temperatures.

Rich vehicle-mounted I/O

Integrates multiple channels of I/O inputs, outputs, and analog inputs, can connect a wide range of sensors. Integrates Bluetooth 4.1 to connect vehicle-mounted Bluetooth electronic devices. Supports RS232/RS485 serial port, can connect field service devices to implement asset management or service workflow.

Inertial navigation

Integrates inertial navigation system. When GNSS positioning becomes inaccurate due to weak signal, no signal or multi-path effect, the gateway will still provide excellent positioning accuracy.

• Driving behavior monitoring

Integrated 3D accelerometer and gyroscope can help to monitor in real time dangerous driving behaviors like rapid acceleration, sudden braking and sharp turns, as well as collision events. This will help to reduce accidents, protect personnels and cargoes safe with preventive measures, and finally reduce operation losses and improve customer satisfaction.

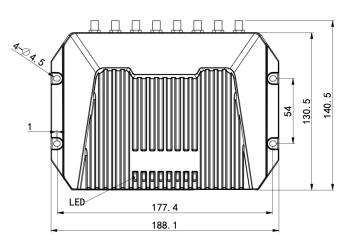
Edge computing

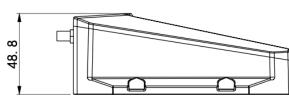
Outstanding edge computing capabilities extend analytical calculation to the network edge within the vehicle, improving the efficiency of data processing, which meets the basic need for real-time business and application intelligence in the Internet of Vehicles (IoV) industry. Supports Node-RED Low-code edge computing solutions.

Fleet management platform

Supports access to In Hand or a 3rd-party fleet management platform to perform: task assignment, route planning, vehicle tracking, real-time messaging, geofencing, etc.

Dimensions (mm)







Product Specifications

| VG710 Hardware Specifications | | | | | | | | | |
|--|--|-----------------|------------------------|--------------------------------------|-------------------------------------|--|--|--|--|
| Hardware Platform | | | | | | | | | |
| CPU | ARM Cortex A7 | RAM | 1 | 1 GB DDR3 | | | | | |
| FLASH | 8GB eMMc | n Frequency | 717 MI | Ηz | | | | | |
| Satellite Navigation | | | | | | | | | |
| GNSS Receiver GPS, GLONASS, Galileo, Beidou | | | | | | | | | |
| Built-in Sensor | Inertial navigation sensor (accelerometer and gyroscope) | | | | | | | | |
| Positioni ng Deviation | 11.5m (With SBAS), 2.5m (Autonomous), ADR (Optional) | | | | | | | | |
| Tracking Sensiti vity | -160 dBm Location Update Rate MAX 10Hz | | | | | | | | |
| Interfaces | | | | | | | | | |
| Cellular | 5G SA/NAS Sub-6 or | r 4G C | CAT 6 | | | | | | |
| Ethernet | 4*10/100/1000 Mbps | 8 RJ45 | interface | | | | | | |
| MicroSD | Up to 32G B, 20 M B/ | s | Bluetooth | Blueto | ooth 4.1 | | | | |
| Antenna | SMA-K: Cellular, GN | SS; RI | PSMA-K: 2*Wi-Fi | , Blueto | ooth | | | | |
| Indicator | System, Cellular, Sig | gnal, C | SNSS, Wi-Fi 2.40 | i, Wi-Fi | 5G, U1, U2 | | | | |
| Wi-Fi | | | | | | | | | |
| Frequency | 2.4 / 5GHz dual-ban | d | Protocol | Wi-Fi | 5 | | | | |
| Maximu m Output | 2.4G: 17d Bm; 5G: 17d | dBm | Working Mode | AP/C | lient | | | | |
| Automotive Inter | faces | | | | | | | | |
| Diagnosti <i>c</i> s Interfaces | 2*CAN bus,1*J1708, | 1*LIN | Bus | | | | | | |
| DO/DI/AI | 2*DO, 4*DI/AI or 2*D | I/AI | Audio/Voice | udio/Voice R, L, Mic | | | | | |
| Serial Port | 1*RS232, 1*RS485 | | Other | 1 WIRE (driver ID temperature sen | | | | | |
| Power Supply | | | | | | | | | |
| PIN Definition | V+, V-, ignition sign | al, NC | (4 pins) | | | | | | |
| Input Voltage | 9-36VDC [configura | ble to | 7-36VDC] | | | | | | |
| Protection | Built-in voltage tran induction | nsient | protection, with | delaye | ed ignition | | | | |
| Stand by Power | 0.006W - monitors ignition | ignitio | on signal only; sy | /stem s | tarts on | | | | |
| Operating Power | 12.00 W - average w | hen R | F module not ru | unning | at ful I load | | | | |
| Peak Power | 18.20 W - peak value | whe | n RF module ru | nning a | t full load | | | | |
| Mechanical Featu | res | | | | | | | | |
| Installation | Wall-mounting | | Protection Rating IP64 | | IP64 | | | | |
| Cooling | Radiation cooling | | Housing | | Die-cast a luminu m | | | | |
| Dimensions (W*D*H) | 188.1*104.5*48.8 (mr | n) | Weight | | 775g | | | | |
| SIM Card Slot | Dual SIM | | SIM Card Spec | | 2FF | | | | |
| Environment | | | | | | | | | |
| Operating Temp. | -30 °C ~ +70 °C -22 °F ~ +158 °F | | Storage Temp. | | -40 °C ~ +85 °C -40 °F ~ +185 °F | | | | |
| Humidity | 95% RH @ 60°C | Start-up -35 °C | | C/-35°F | | | | | |
| Vehicle | | | | | | | | | |
| Vahial- Ct. | | | Ctandarial | EN 50 | 155, E N5 01 21 | | | | |
| Vehicle Standard | ECE-R10, R118 Rail Standard EN 61373, EN 45545 Level 3 (EN61000-4-2, EN61000-4-3, EN61000-4-4, EN610000-4-4, EN6100000-4-4, EN6100000-4-4, EN6100000-4-4, EN610000-4-4, EN610000-4-4, EN61000000000000000000000000000000000000 | | | | | | | | |
| EMC 5, EN61000-4-6, EN61000-4-3, EN61000-4-4, EN61000-4- | | | | | | | | | |
| Physical | | | | | | | | | |
| Shock | IEC60068-2-27 Vibration IEC60068-2-6 | | | | | | | | |
| Free Fall | IEC60068-2-32 | | | | | | | | |
| Certification | | | | | | | | | |
| Certification | CE, E-Mark, ITxPT, F | CC,IC | C, PTCRB, RoHS, | VZW, A | AT&T, TMO | | | | |
| Warranty | 3 years | | | | | | | | |

| Network Access Network Access AuthenticationAPN, VPDNLAN ProtocolARP, EthernetAccess AuthenticationCHAP/PAP/MS-CHAP/VS-CHAP/VS-RP, EthernetNetwork ProtocolsVetwork ProtocolsIPV6, Ping, Traceroute, DHCP server/relay/diient, DNS relay, DDNS, Telnet, SSH, HTTP, HTTP, STFTP, FTP, SFTP, PortalIP ApplicationStatic routing, RIP, OSPF, BGP, IGCM ProxyNetwork SecuritySPI, DOS attack defense, multicast/Ping probe filter, ACLS, Supports NAT, PAT, DMZ, port mapping, virtual serverUser Level2 levels: administrator; read-only userAAALocal authentication, Radius, Tacast, LDAPCA CertificatePEM, PKCS12 SCFVPNIPsec VPN, L2TP, GRE, OPENVPN, CAPeliabilitySends heartberg, NRRP, interface backupInk DetectionSends heartberg, VRRP, interface backupGrifine StorageBuilt-in cache, records key data when network unavailableProtocolIEEB0211 bi/m/a/acProtocolIEEB0211 bi/m/a/acSecurityShared key, WPA/WPA2 authentication, WEP/TKIP/AES encryptionProtocolIEEB0211 bi/m/a/acConfigurationLocal or remote WEB, DM, TFTP, FTP, STP serverLocal or remote WEB, DM, TFTP, STP, STP serverApaLocal/Radius/TACACS + | VG710 Software Sp | ecifications | | | | | | | |
|--|---------------------|---|--|--|--|--|--|--|--|
| Network AccessAPN, VPDNLAN ProtocolAPR, EthernetAccess AuthenticationCHAP/PAP/MS-CHAP/MS-CHAP V3Network ProtocolIPApplicationIPAS, Ping, Traice-Jute, DHCP sever/Fatty/client, DNS, PortalIP ApplicationIPAS, Ping, Traice-Jute, SH, HTTP, HTTP, TTTP, FTTP, STTP, PortalIP RoutingStato constructionNetwork SecuritySPI, DOS attack defense, multicast/Ping probe filter, ACLS, Supports NAT, PAT, DMZ, DMS, Tolmet JCACer tificatePEM, PKCS12 SCEVPN2 levels: administrator; read-only userAAALocal authentication, Radius, Tacacs+, LDAPCA Cer tificatePEM, PKCS12 SCEVPNOBerds PartitionCar difficatSends heartbeatureNatch dogRens self-detectionBackupFloating routing, VRRP, Interface b-kupChan DetectionSupportedOffine StorageSupportedSecuritySupportedShared key, WPA/WPA2 authentication, WEP/TKIP/AB2SecuritySalard reacue, Sniffer (network packet capturing to tool Singen consciption)AdaLocal or remoter WEB, DM, FTTP, FTP, SFTP serverAAALocal or remoter WEB, DM, FTTP, FTP, SFTP serverAAALocal or remoter Sinfer (network packet capturing tool Diagnostics)ProgrammableAredge computing platform integrating network, Singen consciptionSinger Singer Sin | | | | | | | | | |
| AuthenticationCHAP/PAP/MS-CHAP/V2AccessPP6A, Ping, Traceroute, DHCP server/relay/client, DNS protalIP ApplicationIP6A, Ping, Traceroute, DHCP server/relay/client, DNS protalIP RoutingStatic routing, RIP, OSPF, BCP, IGMP ProxyHerwork SecuryEvenerFirewallSchlooS attack defense, multicast/Ping probe filter, ACLS, Supports NAT, PAT, DMZ, port mapping, virtual serverUser Level2 levels: administrator, read-only userAACala lath-entication, Radius, Tacacs+, LDAPCA CertificatePEM, PKCS12, SCEPVENIPsec VPN, L2TP, GRE, OPENVPN, CABackupFloating routing, VRRP, Interface backupLink DetectionSends heartbeat packet to detect, auto redial when disconnectedOffline StorageSportedOffline StorageSupportedProtectSecurityProtocolIEEB0211 blg/h/a/ceSecurityShared key, WPA/WPA2 authentication, WEP/TKIP/AEDOrdigurationLocal or remote HTPP, HTPS, FIP RSTP serverAAALocal or remote WEB, DM, TFIP, FIP, SFTP serverAMALocal or remote WEB, DM, TFIP, FIP, SFTP serverAGASocaro remote WEB, DM, TFIP, FIP, SFTP, SFT, CoAPProtonSocaro remote WEB, DM, TFIP, FIP, SFTP serverAGASocaro remote WEB, DM, TFIP, FIP, SFTP, SFTP, SFTP, SFTP< | | | | | | | | | |
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| ReliabilityBackupFloating routing, VRRP, interface backupBackupSends heartbeat packet to detect, auto redial when disconnectedLink DetectionSends heartbeat packet to detect, auto redial when disconnectedWatchdogRuns self-detection and auto-repairing of device faultsOffline StorageBuilt-in cache, records key data when network unavailablePortsSupportedVLAN PartitionSupportedVLAN PartitionSupportedSecurityIEEEB0211 b/g/n/a/acSecurityShared key, WPA/WPA2 authentication, WEP/TKIP/AES encryptionProtocolIEEEB0211 b/g/n/a/acSecurityShared key, WPA/WPA2 authentication, WEP/TKIP/AES encryptionConfigurationLocal or remote HTPP, HTTPS, Telnet, SSHUpgradeLocal or remote WEB, DM, TFTP, FTP, SFTP serverAAALocal / Radius / TACACS +Network DiagnosticsPing, Traceroute, Sniffer (network packet capturing tool)Edge Computing PlatformAn edge computing platform integrating network, computing, storage and applicationsProgrammablePython, C/C++ & DockerSDKPython 3 SDK, Docker SDK and Azure IoT Edge SDKIDEVisual Studio CodeIoT ArchitectureSupports MQTT, DDS, AMQP, XMPP, JMS, REST, CoAPIShocker ImagesNode-RED, Ubuntu, Docker for ARM 32, etc.Docker ImagesNode-RED, Ubuntu, Docker for ARM 32, etc.Cloud ServicesDevice Manager: remote management of VG710 online InConnect: Quickly building of private networks and acces to devices connected to VG710 at an | CA Certificate | PEM, PKCS12, SCEP | | | | | | | |
| BackupFloating routing, VRRP, interface backupLink DetectionSends heartbeat packet to detect, auto redial when disconnectedWatchdogRuns self-detection and auto-repairing of device faultsOrfline StorageBuilt-in cache, records key data when network unavailablePotsSupportedVLAN PartitionSupportedVLAN PartitionSupportedSecurityIEEE80211 b/g/n/a/acSecurityCocal or remote HTPP, HTTPS, Telnet, SSHOnfigurationLocal or remote HTPP, HTTPS, Telnet, SSHUpgradeLocal or remote WEB, DM, TFTP, FTP, SFTP serverConfigurationLocal / Radius / TACACS +Network DiagnosticsPing, Traceroute, Sniffer (network packet capturing tool)Edge Computing PlatformAn edge computing platform integrating network, computing, storage and applicationsProgrammablePython, C/C++ & DockerSDKDyports MQTT, DDS, AMQP, XMPP, JMS, REST, CoAPIDEVisual Studio CodeIsrd Party CloudMS Azure, SmartFleet and development APIs for other in Connect Quickly building of private networks and acces to devices connected to VG710 at any time inconnect Quickly building of private networks and acces to devices connected to VG710 at any timeVehicle TelemetryRich interfaces for vehicle telemetry and asset tracking ievices | VPN | IPsec VPN, L2TP, GRE, OPENVPN, CA | | | | | | | |
| Link DetectionSends heartbeat packet to detect, auto redial when disconnectedWatchdogRuns self-detection and auto-repairing of device faultsOrfline StorageBuilt-in cache, records key data when network unavailablePotsSupportedVLAN PartitionSupportedVLANIEEE802.11 b/g/n/a/acSecurityIEEE802.11 b/g/n/a/acSecurityShared key, WPA/WPA2 authentication, WEP/TKIP/AES encryptionNetwork ManageLocal or remote HTPP, HTTPS, Telnet, SSHUpgradeLocal or remote WEB, DM, TFTP, FTP, SFTP serverAAALocal / Radius / TACACS +Network biagnosticsPing, Traceroute, Sniffer (network packet capturing tool)Fdge Computing PlatformAn edge computing platform integrating network, computing, storage and applicationsProgrammablePython, C/C++ & DockerSDKSAzure, SmartFleet and development APIs for other third-party platformSocher ImagesNode-RED, Ubuntu, Docker for ARM 32, etc.Application ServicesDevice Manager: remote management of VG710 online in Connect Quickly building of private networks and access to devices connected to VG710 at any timeVehicle TelementyRich interfaces for vehicle telemetry and asset tracking ervice status, power supply, temperature, voltage, etc. | Reliability | | | | | | | | |
| Link DetectiondisconnectedWatchdogRuns self-detection and auto-repairing of device faultsOffline StorageBuilt-in cache, records key data when network unavailablePotsSupportedVLAN PartitionSupportedVLAN PartitionIEEE80211 l/g/n/a/acSecurityShared key, WPA/WPA2 authentication, WEP/TKIP/AES encryptionProtocolIEEE80211 b/g/n/a/acSecurityCoal or remote HTPP, HTTPS, Telnet, SSHUpgradeLocal or remote WEB, DM, TFTP, FTP, SFTP serverAAALocal or remote WEB, DM, TFTP, FTP, SFTP serverAAALocal / Radius /TACACS +Network DiagnosticsPing, Traceroute, Sniffer (network packet capturing tool)Edge Computing PlatformAn edge computing platform integrating network, computing, storage and applicationsForgaramablePython, C/C++ & DockerSDKPython's SDK, Docker SDK and Azure IoT Edge SDKIDESupports MQTT, DDS, AMQP, XMPP, JMS, REST, CoAPGrad Party CloudMS Azure, SmartFleet and development APIs for other hird-party platformsCloud ServicesDevice Manager: remote management of VG710 online accers to devices connected to VG710 at any timeVehicle TelemettyRich interfaces for vehicle telemetty and asset tracking devicesFuench AlarmCustomizable event alarms: digital input, network, service status, power supply, temperature, voltage, etc. | Backup | Floating routing, VRRP, interface backup | | | | | | | |
| Offline StorageBuilt-in cache, records key data when network unavailablePortsVLAN PartitionSupportedWLANProtocolIEEE80211 b/g/n/a/acSecurityShared key, WPA/WPA2 authentication, WEP/TKIP/AES encryptionNetwork ManagererConfigurationLocal or remote HTPP, HTTPS, Telnet, SSHUpgradeLocal or remote WEB, DM, TFTP, FTP, SFTP serverAAALocal / Radius / TACACS +Network DiagnosticsPing, Traceroute, Sniffer (network packet capturing tool)Edge Computing PlatformAn edge computing platform integrating network, computing, storage and applicationsProgrammablePython, C/C++ & DockerSDKPython 3 SDK, Docker SDK and Azure IoT Edge SDKIDESupports MQTT, DDS, AMQP, XMPP, JMS, REST, CoAPIGrd Party CloudMS Azure, SmartFleet and development APIs for other third-party platformsCloud ServicesDevice Manager: remote management of VG710 online In Connect: Quickly building of private networks and acces to devices connected to VG710 at any timeVehicle TelemetryRich interfaces for vehicle telemetry and asset tracking evicesEvent AlarmCustomizable event alarms: digital input, network, service status, power supply, temperature, voltage, etc. | Link Detection | | | | | | | | |
| Offline StorageunavailablePortsSupportedVLAN PartitionSupportedWLANFrotocolIEEE80211 b/g/n/a/acSecurityShared key, WPA/WPA2 authentication, WEP/TKIP/AES encryptionNetwork ManageLocal or remote HTPP, HTTPS, Telnet, SSHUpgradeLocal or remote WEB, DM, TFTP, FTP, SFTP ser verAAALocal / Radius /TACACS +Network DiagnosticsPing, Traceroute, Sniffer (network packet capturing tool)Edge Computing PlatformAn edge computing platform integrating network, computing, storage and applicationsProgrammablePython, C/C++ & DockerSDKPython 3 SDK, Docker SDK and Azure IoT Edge SDKIDESupports MQTT, DDS, AMQP, XMPP, JMS, REST, CoAP3rd Party CloudMS Azure, SmartFleet and development APIs for other third-party platformsCloud ServicesDevice Manager: remote management of VG710 online InConnect: Quickly building of private networks and access to devices connected to VG710 at y timeVehicle TelemetryRich interfaces for vehicle telemetry and asset tracking devicesEvent AlarmCustomizable event alarms: digital input, network, service status, power supply, temperature, voltage, etc. | Watchdog | Runs self-detection and auto-repairing of device faults | | | | | | | |
| VLAN PartitionSupportedVLANProtocolIEEE802.11 b/g/n/a/acProtocolIEEE802.11 b/g/n/a/acSecurityShared key, WPA/WPA2 authentication, WEP/TKIP/AES encryptionNetwork ManageLocal or remote HTPP, HTTPS, Telnet, SSHUpgradeLocal or remote WEB, DM, TFTP, FTP, SFTP serverAAALocal / Radius / TACACS +Network DiagnosticsPing, Traceroute, Sniffer (network packet capturing tool)Edge Computing PlatformAn edge computing platform integrating network, computing, storage and applicationsProgrammablePython, C/C++ & DockerSDKPython 3 SDK, Docker SDK and Azure IoT Edge SDKIDESupports MQTT, DDS, AMQP, XMPP, JMS, REST, CoAPDiof ArchitectureSupports MQTT, DDS, AMQP, XMPP, JMS, REST, CoAPDSnd Party CloudMS Azure, SmartFleet and development APIs for other hird-party platformsCloud ServicesDevice Manager: remote management of VG710 online inConnect: Quickly building of private networks and access to devices connected to VG710 at any timeVehicle TelemetryRich interfaces for vehicle telemetry and asset tracking devicesEvent AlarmCustomizable event alarms: digital input, network, services | Offline Storage | | | | | | | | |
| WLANProtocolIEEE8 02.11 b/g/n/a/acSecurityShared key, WPA/WPA2 authentication, WEP/TKIP/AES encryptionNetwork ManagementConfigurationLocal or remote HTPP, HTTPS, Telnet, SSHUpgradeLocal or remote WEB, DM, TFTP, FTP, SFTP serverAAALocal / Radius /TACACS +Network DiagnosticsPing, Traceroute, Sniffer (network packet capturing tool)Edge Computing PlatformAn edge computing platform integrating network, computing, storage and applicationsProgrammablePython, C/C++ & DockerSDKPython, SDK, Docker SDK and Azure IoT Edge SDKIDEVisual Studio CodeIoT ArchitectureSupports MQTT, DDS, AMQP, XMPP, JMS, REST, CoAP3rd Party CloudMS Azure, SmartFleet and development APIs for other third-party platformsCloud ServicesDevice Manager: remote management of VG710 online In Connect Quickly building of private networks and access to devices connected to VG710 at any timeVehicle TelemetryRich interfaces for vehicle telemetry and asset tracking devicesEvent AlarmCustomizable event alarms: digital input, network, server supply, temperature, voltage, etc. | Ports | | | | | | | | |
| ProtocolIEEE802.11 b/g/n/a/acSecurityShared key, WPA/WPA2 authentication, WEP/TKIP/AES encryptionNetwork ManageLocal or remote HTPP, HTTPS, Telnet, SSHLopgradeLocal or remote HTPP, HTTPS, Telnet, SSHUpgradeLocal / Radius /TACACS +Network DiagnosticsPing, Traceroute, Sniffer (network packet capturing tool)Edge Computing PlatformAn edge computing platform integrating network, computing, storage and applicationsForgrammablePython, C/C++ & DockerSDKPython 3 SDK, Docker SDK and Azure IoT Edge SDKIDEVisual Studio CodeIoT ArchitectureSupports MQTT, DDS, AMQP, XMPP, JMS, REST, CoAPJocker ImagesNode-RED, Ubuntu, Docker for ARM 32, etc.Application ServicesDevice Manager: remote management of VG710 online InConnect Quickly building of private networks and access to devices connected to VG710 at any timeVehicle TelementyRich interfaces for vehicle telemetry and asset tracking devicesEvent AlarmCustomizable event alarms: digital input, network, serve status, power supply, temperature, voltage, etc. | VLAN Partition | Supported | | | | | | | |
| SecurityShared key, WPA/WPA2 authentication, WEP/TKIP/AE3 encryptionNetwork ManagemetConfigurationLocal or remote HTPP, HTTPS, Telnet, SSHUpgradeLocal or remote WEB, DM, TFTP, FTP, SFTP serverAAALocal / Radius / TACACS +Network DiagnosticsPing, Traceroute, Sniffer (network packet capturing tool)Edge Computing PlatformAn edge computing platform integrating network, computing, storage and applicationsFrogrammablePython, C/C++ & DockerSDKPython3 SDK, Docker SDK and Azure IoT Edge SDKIDEVisual Studio CodeIoT ArchitectureSupports MQTT, DDS, AMQP, XMPP, JMS, REST, CoAP3rd Party CloudMS Azure, SmartFleet and development APIs for other third-party platformsCloud ServicesDevice Manager: remote management of VG710 online acces to devices connected to VG710 at any time acces to devices for vehicle telemetry and asset tracking devicesEvent AlarmCustomizable event alarms: digital input, network, service status, power supply, temperature, voltage, etc. | WLAN | | | | | | | | |
| Security encryption Network Managemett Local or remote HTPP, HTTPS, Telnet, SSH Upgrade Local or remote WEB, DM, TFTP, FTP, SFTP server AAA Local / Radius / TACACS + Network Diagnostics Ping, Traceroute, Sniffer (network packet capturing tool) Edge Computing Platform An edge computing platform integrating network, computing, storage and applications Programmable Python, C/C++ & Docker SDK Python, C/C++ & Docker SDK Python, SDK, Docker SDK and Azure IoT Edge SDK IDE Visual Studio Code IoT Architecture Supports MQTT, DDS, AMQP, XMPP, JMS, REST, CoAP 3rd Party Cloud MS Azure, SmartFleet and development APIs for other third-party platforms Docker Images Node-RED, Ubuntu, Docker for ARM 32, etc. Application Services Device Manager: remote management of VG710 online in Connect: Quickly building of private networks and access to devices connected to VG70a t any time Vehicle Telemetry Rich interfaces for vehicle telemetry and asset tracking devices Event Alarm Customizable event alarms: digital input, network, service status, power supply, temperature, voltage, etc. | Protocol | IE EE8 02.11 b/g/n/a/ac | | | | | | | |
| ConfigurationLocal or remote HTPP, HTTPS, Telnet, SSHUpgradeLocal or remote WEB, DM, TFTP, FTP, SFTP serverAAALocal / Radius / TACACS +Net work DiagnosticsPing, Traceroute, Sniffer (network packet capturing tool)Edge ComputingAn edge computing platform integrating network, computing, storage and applicationsProgrammablePython, C/C++ & DockerSDKPython 3 SDK, Docker SDK and Azure IoT Edge SDKIDEVisual Studio CodeIoT ArchitectureSupports MQTT, DDS, AMQP, XMPP, JMS, REST, CoAP3rd Party CloudMS Azure, SmartFleet and development APIs for other third-party platformsDocker ImagesNode-RED, Ubuntu, Docker for ARM 32, etc.Application ServicesDevice Manager: remote management of VG710 online InConnect: Quickly building of private networks and access to devices connected to VG710 at any timeVehicle TelemetryRich interfaces for vehicle telemetry and asset tracking devicesEvent AlarmCustomizable event alarms: digital input, network, service status, power supply, temperature, voltage, etc. | Security | | | | | | | | |
| UpgradeLocal or remote WEB, DM, TFTP, FTP, SFTP serverAAALocal / Radius / TACACS +Net work DiagnosticsPing, Traceroute, Sniffer (network packet capturing tool)Edge Computing FrameworkEdge Computing platform integrating network, computing, storage and applicationsProgrammablePython, C/C++ & DockerSDKPython 3 SDK, Docker SDK and Azure IoT Edge SDKIDEVisual Studio CodeIoT ArchitectureSupports MQTT, DDS, AMQP, XMPP, JMS, REST, CoAP3rd Party CloudMS Azure, SmartFleet and development APIs for other third-party platformsDocker ImagesNode-RED, Ubuntu, Docker for ARM 32, etc.Application ServicesDevice Manager: remote management of VG710 online | Network Managem | ent | | | | | | | |
| AAALocal / Radius / TACACS +Net work DiagnosticsPing, Traceroute, Sniffer (network packet capturing tool)Edge Computing PlatformAn edge computing platform integrating network, computing, storage and applicationsProgrammablePython, C/C++ & DockerSDKPython, SDK, Docker SDK and Azure IoT Edge SDKIDEVisual Studio CodeIoT ArchitectureSupports MQTT, DDS, AMQP, XMPP, JMS, REST, CoAP3rd Party CloudMS Azure, SmartFleet and development APIs for other third-party platformsDocker ImagesNode-RED, Ubuntu, Docker for ARM 32, etc.Application ServicesDevice Manager: remote management of VG710 online InConnect: Quickly building of private networks and access to devices connected to VG710 at any timeVehicle TelemetryRich interfaces for vehicle telemetry and asset tracking devicesEvent AlarmCustomizable event alarms: digital input, network, service status, power supply, temperature, voltage, etc. | Configuration | Local or remote HTPP, HTTPS, Telnet, SSH | | | | | | | |
| Network DiagnosticsPing, Traceroute, Sniffer (network packet capturing tool)Edge Computing PlatformAn edge computing platform integrating network, computing, storage and applicationsProgrammablePython, C/C++ & DockerSDKPython, C/C++ & DockerSDKPython 3 SDK, Docker SDK and Azure IoT Edge SDKIDEVisual Studio CodeIoT ArchitectureSupports MQTT, DDS, AMQP, XMPP, JMS, REST, CoAP3rd Party CloudMS Azure, SmartFleet and development APIs for other third-party platformsDocker ImagesNode-RED, Ubuntu, Docker for ARM 32, etc.Application ServicesDevice Manager: remote management of VG710 online In Connect: Quickly building of private networks and access to devices connected to VG70 at any timeVehicle TelemetryRich interfaces for vehicle telemetry and asset tracking devicesEvent AlarmCustomizable event alarms: digital input, network, service status, power supply, temperature, voltage, etc. | Upgrade | Local or remote WEB, DM, TFTP, FTP, SFTP server | | | | | | | |
| Diagnostics Ping, fraceroute, Sniffer (network packet capturing tool) Edge Computing Platform An edge computing platform integrating network, computing, storage and applications Programmable Python, C/C++ & Docker SDK Python, C/C++ & Docker SDK Python 3 SDK, Docker SDK and Azure loT Edge SDK IDE Visual Studio Code IoT Architecture Supports MQTT, DDS, AMQP, XMPP, JMS, REST, CoAP 3rd Party Cloud MS Azure, SmartFleet and development APIs for other third-party platforms Docker Images Node-RED, Ubuntu, Docker for ARM 32, etc. Application Services Device Manager: remote management of VG710 online InConnect: Quickly building of private networks and access to devices connected to VG710 at any time Vehicle Telemetry Rich interfaces for vehicle telemetry and asset tracking devices Event Alarm Customizable event alarms: digital input, network, service status, power supply, temperature, voltage, etc. | AAA | Local / Radius / TACACS + | | | | | | | |
| Edge Computing PlatformAn edge computing platform integrating network, computing, storage and applicationsProgrammablePython, C/C++ & DockerSDKPython 3 SDK, Docker SDK and Azure IoT Edge SDKIDEVisual Studio CodeIoT ArchitectureSupports MQTT, DDS, AMQP, XMPP, JMS, REST, CoAP3rd Party CloudMS Azure, SmartFleet and development APIs for other third-party platformsDocker ImagesNode-RED, Ubuntu, Docker for ARM 32, etc.Application ServicesDevice Manager: remote management of VG710 online InConnect: Quickly building of private networks and access to devices connected to VG710 at any timeVehicle TelemetryRich interfaces for vehicle telemetry and asset tracking devicesEvent AlarmCustomizable event alarms: digital input, network, service status, power supply, temperature, voltage, etc. | | Ping, Traceroute, Sniffer (network packet capturing tool) | | | | | | | |
| Platform computing, storage and applications Programmable Python, C/C++ & Docker SDK Python, SDK, Docker SDK and Azure IoT Edge SDK IDE Visual Studio Code IoT Architecture Supports MQTT, DDS, AMQP, XMPP, JMS, REST, CoAP 3rd Party Cloud MS Azure, SmartFleet and development APIs for other third-party platforms Docker Images Node-RED, Ubuntu, Docker for ARM 32, etc. Application Services Device Manager: remote management of VG710 online InConnect: Quickly building of private networks and access to devices connected to VG710 at any time Vehicle Telemetry Rich interfaces for vehicle telemetry and asset tracking devices Event Alarm Customizable event alarms: digital input, network, service status, power supply, temperature, voltage, etc. | Edge Computing F | ramework | | | | | | | |
| SDK Python 3 SDK, Docker SDK and Azure IoT Edge SDK IDE Visual Studio Code IoT Architecture Supports MQTT, DDS, AMQP, XMPP, JMS, REST, CoAP 3rd Party Cloud MS Azure, SmartFleet and development APIs for other third-party platforms Docker Images Node-RED, Ubuntu, Docker for ARM 32, etc. Application Services Device Manager: remote management of VG710 online In Connect: Quickly building of private networks and access to devices connected to VG710 at any time Vehicle Telemetry Rich interfaces for vehicle telemetry and asset tracking devices Event Alarm Customizable event alarms: digital input, network, service status, power supply, temperature, voltage, etc. | | | | | | | | | |
| IDE Visual Studio Code IoT Architecture Supports MQTT, DDS, AMQP, XMPP, JMS, REST, CoAP 3rd Party Cloud MS Azure, SmartFleet and development APIs for other third-party platforms Docker Images Node-RED, Ubuntu, Docker for ARM 32, etc. Application Services Device Manager: remote management of VG710 online InConnect: Quickly building of private networks and access to devices connected to VG710 at any time Vehicle Telemetry Rich interfaces for vehicle telemetry and asset tracking devices Event Alarm Customizable event alarms: digital input, network, service status, power supply, temperature, voltage, etc. | Programmable | Python, C/C++ & Docker | | | | | | | |
| IoT Architecture Supports MQTT, DDS, AMQP, XMPP, JMS, REST, CoAP 3rd Party Cloud MS Azure, SmartFleet and development APIs for other third-party platforms Docker Images Node-RED, Ubuntu, Docker for ARM 32, etc. Application Services Device Manager: remote management of VG710 online InConnect: Quickly building of private networks and access to devices connected to VG710 at any time Vehicle Telemetry Rich interfaces for vehicle telemetry and asset tracking devices Event Alarm Customizable event alarms: digital input, network, service status, power supply, temperature, voltage, etc. | SDK | Python 3 SDK, Docker SDK and Azure IoT Edge SDK | | | | | | | |
| 3rd Party Cloud MS Azure, SmartFleet and development APIs for other third-party platforms Docker Images Node-RED, Ubuntu, Docker for ARM 32, etc. Application Services Device Manager: remote management of VG710 online InConnect: Quickly building of private networks and access to devices connected to VG710 at any time Vehicle Telemetry Rich interfaces for vehicle telemetry and asset tracking devices Event Alarm Customizable event alarms: digital input, network, service status, power supply, temperature, voltage, etc. | IDE | Visual Studio Cod e | | | | | | | |
| 3rd Party Cloud third-party platforms Docker Images Node-RED, Ubuntu, Docker for ARM 32, etc. Application Services Device Manager: remote management of VG710 online InConnect: Quickly building of private networks and access to devices connected to VG710 at any time Vehicle Telemetry Rich interfaces for vehicle telemetry and asset tracking devices Event Alarm Customizable event alarms: digital input, network, service status, power supply, temperature, voltage, etc. | IoT Architecture | Supports MQTT, DDS, AMQP, XMPP, JMS, REST, CoAP | | | | | | | |
| Application Services Cloud Services Device Manager: remote management of VG710 online InConnect: Quickly building of private networks and access to devices connected to VG710 at any time Vehicle Telemetry Rich interfaces for vehicle telemetry and asset tracking devices Event Alarm Customizable event alarms: digital input, network, service status, power supply, temperature, voltage, etc. | 3rd Party Cloud | | | | | | | | |
| Cloud ServicesDevice Manager: remote management of VG710 online InConnect: Quickly building of private networks and access to devices connected to VG710 at any timeVehicle TelemetryRich interfaces for vehicle telemetry and asset tracking devicesEvent AlarmCustomizable event alarms: digital input, network, service status, power supply, temperature, voltage, etc. | Docker Images | Node-RED, Ubuntu, Docker for ARM 32, etc. | | | | | | | |
| Cloud ServicesInConnect: Quickly building of private networks and access to devices connected to VG710 at any timeVehicle TelemetryRich interfaces for vehicle telemetry and asset tracking devicesEvent AlarmCustomizable event alarms: digital input, network, service status, power supply, temperature, voltage, etc. | Application Service | 25 | | | | | | | |
| Vehicle Telemetry Rich interfaces for vehicle telemetry and asset tracking devices Event Alarm Customizable event alarms: digital input, network, service status, power supply, temperature, voltage, etc. | Cloud Services | | | | | | | | |
| Event Alarm Customizable event alarms: digital input, network, service status, power supply, temperature, voltage, etc. | | - | | | | | | | |
| Event Alarm service status, power supply, temperature, voltage, etc. | Vehicle Telemetry | devices | | | | | | | |
| Message Push SMS, Email, App, device digital output | | service status, power supply, temperature, voltage, etc. | | | | | | | |
| | Message Push | SMS, Email, App, device digital output | | | | | | | |

inhand InHand Networks

Ordering Guide

| Model | Model code: VG710-H- <wmnn></wmnn> | | | | | | | | |
|--------------|--|--------------------|--------------|--------------|--------|--|--|--|--|
| Model | <wmnn>: Cell ular Type & Module</wmnn> | 3GPP | Wi-Fi 5 | BLE | Region | | | | |
| VG710-H-NRQ5 | 5G NR NSA n1/2/3/5/7/8/12/13/14/18/20/25/26/28/29/30/38 /40/41/48/66/70/71/75/76/77/78/79 5G NR SA n1/2/3/5/17/8/12/13/14/18/20/25/26/28/29/30/38/40/41/48/66/ 70/71/75/76/77/78/79 LTE-FDD B1/2/3/4/5/7/8/12/13/14/17/18/19/20/25/26/28/29/30/32 /66/71 LTE-TDD B34/38/39/40/41/42/43/48 LAA 46 WCDMA B1/2/4/5/8/19 | 3GPP Releaœ 16 | V | \checkmark | Global | | | | |
| VG710-H-NRQ3 | 5G NR NSA: n1/n2/n3/n5/n7/n8/n12/n20/n25/n28/n38 /n40/n41/n48*/n66/n71/n77/n78/n79 5G NR SA: n1/n2/n3/n5/n7/n8/n12/n20/n25/n28/n38 /n40/n41/n48*/n66/n71/n77/n78/n79 LTE-FDD: B1/B2/B3/B4/B5/B7/B8/B9/B12(B17)/B13/B14/B18 /B19/B20/B25/B26/B28/B29/B30/B32/B66/B71 LTE-TDD: B34/B38/B39/B40/B41/B42/B43/B48 LAA: B46 WCDMA BandsB1/B2/B3/B4/B5/B6/B8/B19 | 3GPP Relea∞ 15 | V | V | Global | | | | |
| VG710-H-NRR2 | 5G NR NSA n41/n78/n79 5G NR SA n1/n28*/n41/n77/n78/n79 LTE FDD B1/B2/B3/B5/B7/B8/B20/B28 LTE TDD B34/B38/B39/B40/B41 WCDMA B1/B2/B5/B8 | 3GPP Release 15 | \checkmark | \checkmark | China | | | | |

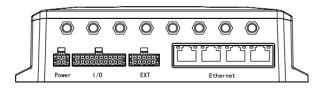
Pin Out Diagram

IO 20PIN Definition

| PIN | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|------|-----------|--------|---------|-----|----------|-----------|-----|-----|---------|-------------------|
| Def. | L_Channel | Mic IN | RS_485A | GND | RS232_TX | 1Wire | DOI | GND | AI1/DI1 | AI3/DI3/FWD |
| PIN | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| Def. | R_Channel | GND | RS_485B | GND | RS232_RX | GNSS_1PPS | DO2 | GND | A12/D12 | AI4/DI4/WHEELTICK |

EXT 10PIN Definition

| PIN | 1 | 2 | 3 | 4 | 5 |
|------|---------|--------|-----|--------|---------|
| Def. | K_LI NE | CAN0_H | GND | CAN1_H | J1708_A |
| PIN | 6 | 7 | 8 | 9 | 10 |
| Def. | L_LINE | CAN0_L | GND | CAN1_L | J1708_B |



About Us

In Hand Networks is a leading IoT solutions provider founded in 2001, dedicated to driving digital transformation across industries and empowering customers to unlock their full potential and achieve accelerated growth.

We specialize in delivering industrial-grade connectivity solutions for diverse sectors, such as enterprise networks, industrial and building IoT, digital energy, smart commerce, and mobility. Our comprehensive product portfolio and services cater to various applications worldwide, including smart manufacturing, smart grid, intelligent transportation, smart retail, etc. With a global footprint spanning over 60 count ries, we serve customers in China, the United States, France, Germany, the United Kingdom, Italy, and beyond.



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