

# Harman Polaris Plugin Quick Start Guide



Issue 1.0

## LED Indicator

Status	Colour	describe
GPS	Blue	a. GPS disable, the LED will be off b. GPS "ON", but location not fixed, the LED will be Blue Blinking. c. GPS "ON" and location fixed, the LED will be Blue Solid
Wi-Fi	Blue	a. WiFi "OFF", the LED will be off b. WiFi "ON", the LED will be Blue Blinking c. WiFi client connected will be solid blue
LTE	Green/Red / Blue	a. Modem Off and in Sleep mode the LED will be off b. Network connection in progress LED Blinking Red c. Network connection successful LED solid green d. Network weak signal is solid

**SAR Body Operation**  
This device was tested for body-support operations. To comply with RF exposure requirements, a minimum separation distance of 1.5cm must be maintained between the user's body and the device, including the antenna. Body-accessories that do not meet these requirements may not comply with RF exposure requirements and should be avoided. Use only the supplied or an approved antenna.

## 1 About Polaris Plugin

Polaris Plugin is an intelligent OBD solution, which integrates 3G/4G module, GPS, acceleration sensor and ECU communication module. Developed on Qualcomm chipset and NXP MCU, it can provide vehicle position, collect statistics on vehicle trajectory, reconstruct driving behavior, collect statistics on fuel consumption, track vehicle to prevent theft, read vehicle status, read/clear vehicle fault codes, etc. This OBD solution is well applicable to individual consumers, fleet management, UBI, vehicle rental and vehicle maintenance

### 1.1 Product Functions

- UMTS / LTE communications
- Real time vehicle data
- Vehicle DTC code
- GPS/GLONASS/BDS/A-GPS positioning
- Supplementary transmission for Blind-area data
- Swapping alarming
- FOTA upgrade
- Sleeping and awaking
- Driving behavior analysis

### 1.2 Package Content

Part	Unit	Quantity
Polaris Plugin	pcs	1
User manual /Quick start guide	pcs	1

## 2 Product Features

Features	Description
Developed network standards compliant	Developed on Qualcomm chipset able to operate on networks of multiple countries
Wide operating voltage range	9V~16V DC
Driving behavior analysis	Built-in acceleration sensor and gyroscope to collect the information about driving behaviors
Complete & stable Applications	Device management, position fix, vehicle diagnosis, driving behavior analysis, and other applications
Various OBD-II Protocols	ISO15765-4, SAEJ1939
Band Support	3G UMTS : B2,B4,B5 4G LTE : B2, B4, B5,B7,B12, B13, B66
Dual APN	YES
Wi-Fi	Protocols : 802.11 b/g/n security : WPA2 PSK, WPA3 PSK "30° E to 90° E", support 4 WIFI connection w/o throttling 85° E to 90° E, support 1 WIFI connection w/o throttling 90° E to 90° E, support 1 WIFI connection with throttled data rate 90° E to 90° E, not support WIFI connection
Hotspot Users	
GPS	Horizontal Pos. Accuracy : 10m TTFF, sec ( cold, warm ) : 35 sec, 5 sec AGPS support : YES Sensitivity : Minimum of -143dbm
Primary Accelerometer	Max G-force measured +/- 16g
Secondary Accelerometer	Max G-force measured +/- 16g
Gyroscope	Resolution +/- 2000 deg/sec
Power consumption	Normal Sleep (NAD STANDBY) : <3.6mA @ 25 Deg and @12V (with Harman Application) Deep Sleep : <200uA @ 12 V @ 25 Deg Normal Operation : 1A @ 12 V @ 25 Deg
Power Back Up	Super Capacitor with 3min (100F)
Reset button	Super long press : rebooting both processing units of the PLUGIN Long press : factory reset of the PLUGIN

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

**Caution :** Any Changes or modifications not expressly approved by Ride Command Plus for compliance could void the user's authority to operate the equipment.

### 5.1 FCC Radiation Exposure Statement

This equipment should be installed and operated with a minimum distance of 15 mm between the device and your body.

**WARNING:** This product can expose you to chemicals including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

### 6 ISED Warning statements

Ride Command Plus device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:  
(1) This device may not cause interference; and  
(2) This device must accept any interference, including interference that may cause undesired operation of the device. Le présent appareil est conforme aux CNR d'Innovation, Science et développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Operational range temperature, C° (full function )	-30 ~ 70°C , humidity 5%-95%
Storage temperature	-40 °C ~ 85 °C
Dimensions	126mm L x 93.5 mm W x 33.5mm H (Maximum Size)
Weight	<250gms (Maximum weight)
IP	IP67
Certifications	FCC, PTCRB, AT&T, RoHS, MSDS, WEE, Wi-Fi Alliance

## 3 How to Start

Used only in North America

### 6.1 ISED Radiation Exposure Statement

This equipment complies with IC RSS-102 radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 15 mm between the radiator and any part of your body.

Pour se conformer aux exigences de conformité CNR 102 RF exposition, une distance de séparation d'au moins 15 mm doit être maintenue entre l'antenne de cet appareil et toutes les personnes.

### 7 IFETEL statements

La operación de este equipo está sujeta a las siguientes dos condiciones: (1) es posible que este equipo o dispositivo no cause interferencia perjudicial y (2) este equipo o dispositivo debe aceptar cualquier interferencia, incluyendo la que pueda causar su operación no deseada.

### 8 Others

Importer Name: Polaris Sales Mexico S. de RL de C.V.  
Importer Address: Ave. Lázaro Cardenas 2225 Piso 6, San Pedro Garza Garcia, NL 66259, Mexico  
Brand: Ride Command Plus  
HW Version: V1.0  
Electrical Specifications (Voltage, Current, Frequency):  
Voltage : 9-16V DC  
Current : 1A max @ 12 V @ 25 Deg ( Normal Operation )  
Country of Origin: China  
Warning to read user manual before use