**Manuals+** — User Manuals Simplified.



# Harman Industries HSA-20NP-PB Harman Polaris Plugin User Guide

**Contents**

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## About Polaris Plugin

Polaris Plugin is an intelligent OBD solution, which integrates a 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.

## 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

## Package Content

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

**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<br>4G LTE : B2, B4, B5,B7,B12, B13, B66 |
| Dual APN | YES |
| Wi-Fi | Protocols : 802.11 b/g/n<br>security : WPA2 PSK, WPA3 PSK |
| Hotspot Users | -30°C to 45°C, support 4 WiFi connection w/o throttling<br>45°C to 50°C, support 1 WiFi connection w/o throttling<br>50°C to 60°C, support 1 WIFI connection with throttled data rate<br>60°C to 70°C, not support WIFI connection |
| GPS | Horizontal Pos. Accuracy : 10m<br>TTFF, sec ( cold, warm ) : 35 sec, 5 sec<br>AGPS support : YES<br>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)<br>Deep Sleep : <200uA @ 12 V @ 25 Deg<br>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<br>Long press : factory reset of the PLUGIN |

| | |
|---|---|
| Operational range temperature, C°( full function ) | -30 ~ 70℃ , humidity:5%~95% |
| Storage temperature, C° | - 40 ℃ ~ 85 ℃ |
| 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 |

## How to Start

Used only in North America

## LED Indicator

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

## Safety Warning

Please use a battery specified by the device manufacturer. Otherwise, all warranty services are invalid. The device manufacturer will not provide a warranty for damage caused by non-OEM accessories.

- Do NOT put the device into water or fire.

- Do NOT bend or open the battery.
- Do NOT recharge the battery.
- Do NOT disassemble the device. Improper handling might damage the device permanently.

## FCC

Ride Command Plus device complies with Part 15 of FCC Rules. Operation is subject to the following two conditions: (1) The device may not cause harmful interference, and (2) The device must accept any interference received, including interference that may cause undesired operation. **Note:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures.

- 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.

### 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**
**6 ISED Warning statements**
Ride Command Plus device contains license-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licenceexempt RSS(s). Operation is subject to the following two conditions:

- This device may not cause interference; and
- 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 subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

### 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 ettoutes les personnes.

## Others

Importer Name: Polaris Sales Mexico S. de RL de C.V. Importer Address: Ave. Lazaro Cardenas 2225 Piso 6, San Pedro Garza Garcia, NL 66269, 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

## Documents / Resources

| | |
|---|---|
| | **Harman Industries HSA-20NP-PB Harman Polaris Plugin** [pdf] User Guide HSA-20NP-PB, HSA20NPPB, 2AHPN-HSA-20NP-PB, 2AHPNHSA20NPPB, HSA-20NP-PB Harman Polaris Plugin, HSA-20NP-PB, Harman Polaris Plugin |

## References

- 🔗 **P65Warnings.ca.gov**