

WH Electronics Inc.

Innovative Solutions Designed For the Automotive Industry

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AXON™ 4020



WH Electronics has developed the next generation of the AXON™ Intelligent Vehicle Interface GPS hardware to compliment the current AXON options currently available to selected fleet solution providers.

The AXON 4020 will incorporate the newest technologies that will allow it to be the perfect solution for monitoring vehicle fleets.

The AXON4020 was designed to communicate with vehicles and to retrieve certain requested parameters from the vehicle. Connecting to the vehicle OBDII connector allows for a fast and reliable installation and allows communication with all types of vehicle protocols.

The AXON 4020 is a vehicle tracking device that will accurately monitor vehicle positions. In addition, it will retrieve vehicle information such as VIN, odometer, fuel-level, speed, RPM, PRNDL and DTCs. Forwarded messages can also be accepted by the AXON 4020 such as door lock/unlock.

This information is transported over a wireless network to the back-end server and can be viewed from any PC, tablet, or smart phone.

AXON 4020 is available with internal or external antennas for 12V and 24V applications.

The AXON 4020 is designed to send the messages that are broadcasted on the vehicle BUS within predetermined time intervals which can also be reconfigured remotely. The AXON 4020 will send the event messages, whenever the preselected events occur.

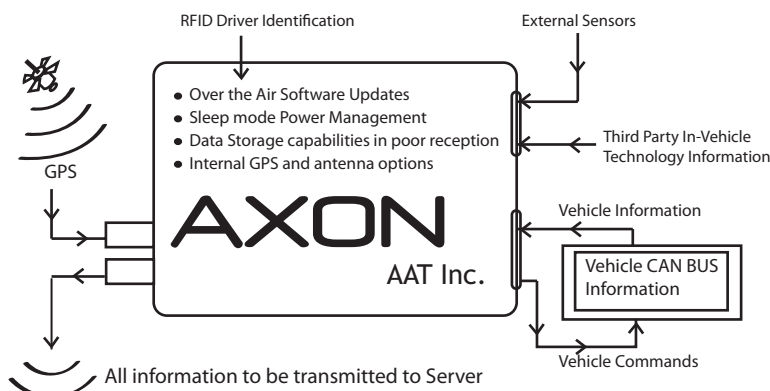
All the AXON 4020 parameters and software can be changed/upgraded over-the-air without customer intervention.

The AXON 4020 can be easily integrated with any third-party solution and forward the third-party device information over-the-air.

The most superior GPS and location technology utilizing GLONASS and GPS satellite systems simultaneously together with Assisted-GPS capabilities to give position when out of range of these two satellite systems.

Standard Features

- HSPA / CDMA / GSM Network Compatible
- USB Support for Direct Communication
- 32Gb Micro SD Card for direct data download
- 3-RS232 with HSPA modem
- 8 IN/OUT
- New Internal 3.7V Battery
- 1-ATD input with 3.3V available
- 32Mbit DATA-Flash
- 32Kbit EEPROM on board
- Garmin PDA Integration.
- J1939, & HSCAN 2 way Communication.
- Salt/Sand Spreader Controller Integration.
- RFID Driver ID Reader Integration
- Accelerometer
- Sleep Mode Power Management
- Data Storage Capabilities
- Internal / External Antenna Option
- 256 Mb Processor





AXONTM 4020

Physical Specifications

Dimensions 10.5 x 8.5 x 3 cm / 4.25 x 3.4 x 1.20 inches
Weight 74g

GPS Specifications

GPS - 50 channel GPS
Accuracy - 2.0 meter CEP
Tracking Sensitivity -160 dBm

I/O Specifications

OBDII	CAN, J1939, J1850 PWM, J1850 VPW, ISO9141, KWP2000
Inputs	4 inputs (150mA)
Outputs	4 outputs (150mA)
Serial Interface	3 Serial
GPS/GSM Antenna	Internal or External
Status LED	GPS & Cellular, Vehicle BUS connection
USB Interface	1 USB

Modem Specification

GPRS, CDMA 1xRTT, HSPA
GSM - Quad Band 850/900/1800/1900 MHz
CDMA - 800/1900 MHz
HSPA - 900/2100 MHz

Features

- OBD II interface
- Available in GSM, CDMA, HSPA
- Messages can be buffered when network not available
- Available with internal/external antenna
- Over-the-air firmware upgrades
- Over-the-air parameters setup
- Interfaces with third-party vehicle based modules
- Garmin interface
- Unlimited number of Geofences can be created
- e-mail messaging on events

Electrical Parameters

Operating Voltage:	7V - 36V DC
Power Consumption:	1 mA sleep mode 80 mA active

Environmental Parameters

Operating Temperatures:	-40 to 85 C
Humidity	94% RH