



*\*Less than 67¢ per day!*

**Included in base price:**

- Battery backup enables unit to keep transmitting if unplugged or power is lost
- Driver behavior software reports speeding, harsh braking, acceleration, and turns.
- Engine diagnostics (CANbus OBDII/J1939 or J1708) shows fuel levels, and engine alerts
- Integration into ServiceTitan and other software systems
- Google Commercial Unlimited mapping, satellite view, and traffic
- Unlimited Geofences and ability to label stops like parts houses
- 2 minute updates on move and every 2 hours on stop
- Continuous tracking when tracking a vehicle that is moving
- Stops by PTO and Driver



**SERVICE as low as: \$19.95** per mo\*  
When unit is purchased. 1st and last month due at time of order.

Financing available. \*Pricing will vary depending on optional equipment and services.





## OPTIONS

Passive RFID reader for driver ID connected via iButton. . . . .	\$ 26.00
Passive RFID ID cards . . . . .	\$ 2.00
Pass Through J1939 / J1708 prewired connector . . . . .	\$ 25.00
OBDII connector and wire harness . . . . .	\$ 15.00
OBDII pass through Connector prewired to wire harness . . . . .	\$ 25.00
External Digital Temperature Sensor with (up to six per unit) . . . . .	\$ 19.00
Driver identification – Dashboard sensor. . . . .	\$ 12.00
Driver identification - Dallas Key for each driver . . . . .	\$ 3.00
Cigarette plug wired to the wire harness. . . . .	\$ 5.00

### Technical Specifications

- Network availability - 4G LTE
- Frequency bands - Frequency bands - Band 2 (1900 MHz), Band 4 (1700/2100 MHz), Band 5 (850 MHz), Band 12 (700 MHz), Band 66 (Extension of Band 4 on 1700/2100 MHz), Band 71 (600 MHz)
- Enclosure: Flame retardant ABS/PC
- Flame rating UL94V-0
- GPS Technology - MTK GPS Technologies - 66 channels
- Dimensions: 3.36" x 2" x 1" LWD (85mm x 52mm x 25.4mm) Additional 0.4" (10mm) on each side for mounting brackets
- Weight: 3.17 oz.(94gr) without batteries

### Environmental Specifications

- Operating temperature: -40° to 176° F (-40° to 80° C)
- Storage temperature: -40° to 221° F (-40° to 105° C)
- Humidity: 0 to 99% 110F (40C), non-condensing
- Shock/Vibration/Mechanical: meets or exceeds EIA standard RS-316B: 3G (operating), 20G (non operating) XYZ 3directions. Meets SAE J1455 (non operating) XYZ 3directions.

### Electrical Specifications

- Power source: 6DC-32VDC tethered to vehicle battery or portable with cigarette plug connector
- ESD 4kV contact, 15kV air
- When external power is disconnected, the unit automatically switches to back up 1800mA/3.7 VDC lithium rechargeable battery/fully charged can send up to 1200 GPS locations.
- Protection: internal resettable 1Amp fuse

### Current Consumption

- Transmit mode: 200mA at 12VDC
- Running mode: 70mA at 12VDC
- Standby (Hibernation) mode: 20mA at 12VDC (when waiting for external event with GPS on)
- Sleep mode: 5mA - (switching to sleep mode automatically when engine is off and/or when external power is disconnected)

### Base Features

- Digital Inputs - Four contact events: two ground sense and two 5VDC 32VDC positive sense
- Analog Inputs - one 0-5VDC
- Digital Outputs - two open collectors 500mA
- Internal analog temperature sensor

### Expansions

- Add three digital inputs for a total of four ground sense and two positive sense
- Add one analog input for a total of two
- Add RS-232 serial port for a total of two. The additional RS-232 port can support RS-485

### Options

- Vibration Sensor - sensitivity adjustable for automatic security theft alarm
- 3D Accelerometer - for tilt detection and extreme driving condition reporting such as sudden acceleration, sudden lane crossing, sharp turns, and sudden brakes
- Driver identification via iButton (Dallas key or Passive RFID)
- Up to 6 temperature sensors via iButton
- Internal lithium 1500mA rechargeable battery (this option is included with all Famhost plans)
- Can bus OBDII/J1939, or J1708
- Bluetooth 4.0 for HOS tablet communication

### Installation

- In cabin installation (usually under the dashboard when dashboard is plastic)
- Plug and Play installation with OBDII/J1939 connector prewired to the STX wireharness

### LED Indicators

- GPS: Off when service is disabled, blinking green when operating normally, blinking orange when GPS current reading is invalid, blinking red on GPS error
- Modem: Solid green when modem is registered, off when no signal is present or unit is off
- Data: Solid red when data is waiting to be transmitted, off when no data is in the buffer
- Power: Solid green when operating normally, off when unit is off, turning to orange when charging the internal battery

### Functional Specifications (partial)

- Sends GPS location every X seconds/minutes and/or every Y miles/km or any combination between time and distance based on speed
- Idle transmission - when the vehicle is idle (stopped) for a predetermined time period, the unit can switch to transmit in "idle mode," for example every 4 hours instead of every minute while moving
- Event logs - Events such as engine on/off, vibration alarm, door open/close are sent with a time stamp of the event and may be configured remotely and sent with or without the exact GPS location taken at the time of the event
- Driver identification - Authorized driver ID's for the specific vehicle are downloaded to the unit OTA and only the driver that has the matching Dallas key ID is authorized to start the vehicle, and the driver ID is sent to the control center database.
- Firmware download via USB or OTA (Over the Air)
- Configurable via USB or OTA
- Highly compressed OTA, UDP communication packaged with Midlink Middleware and "Plug & Play" API or DLL for quick integration into any third party software
- Or direct TCP/IP communication OTA, (no Middleware) packaged with "Plug & Play" API for quick integration into any third party software
- OTA diagnostic tools
- Vibration sensor sensitivity OTA configurable
- Tilt detection and driver behavior violations sensitivity configurable OTA
- Store and Forward - The unit can store up to 5000 events when out of cellular coverage then send them automatically when back in cellular coverage
- Geo-fence - auto alarm with GPS location when the unit moves in and out of a predetermined zone
- Tow detection - The unit detects when the vehicle is moving while the ignition is off
- Starter killer - when the vehicle is stolen, a command can be sent OTA to kill the starter so once the vehicle is stopped and the ignition is turned off it cannot be turned on again (for safety reasons in most countries it is illegal to OTA turn off the engine or gradually decelerate when the vehicle is moving)
- Battery power value is sent automatically OTA to the control center database with every GPS data
- Battery saving mode - auto switch to deep sleep mode when engine is turned off and auto wake up when engine is turned on or on vibration (this feature does not require back up battery)
- OTA programmable via SMS
- Sends cell based location in addition to GPS coordinates
- Accurate driven distance
- External accessible SIM card holder with security lock