

# AutoPi Telematics Unit Pi3 4G/LTE Edition

The most versatile IoT telematics unit available on the market



Bluetooth



Raspberry Pi 3  
Model A+



GPIO Pins



HDMI Port



USB Port



Voice Speaker



Accelerometer



OBD Chip



GPS/GLONASS



4G/3G LTE  
Cat 4 Modem



WiFi



Native Real-time  
Clock



## Key Benefits

- 4G/LTE with global coverage
- Factory integrated unit or aftermarket add-on
- Quad Core CPU with incredible speed
- Integrated power-safe functionality
- Runs full Linux OS
- Can be extended to almost any usage
- Open device and Open Source Software
- Upgradeable to Raspberry Pi 4
- Support for automotive ethernet
- Automotive certified (CE/FCC)



Connect a wide variety of external devices such as dashcam, parking heater, distance sensor and more. As the only telematics unit on the market you can replace or even upgrade the internal components. An extremely flexible hardware unit for your disposal and without any inherent limitations.



As a developer, you can access all data and functionalities through an extensive API and integrate them into your own application. If you need more control; install your own software and run it directly on the telematics unit. It is your device, so you decide.




We believe in openness and freedom of use. The hardware and software platform may be used by anyone for whatever they like. As a user, you can share and benefit from the community of contributors and even collaborate on the development of existing and new features in the dashboard.



The perfect foundation for your intelligent-car/Internet-of-Things project; a powerful computing unit running a high-level operating system, several connectivity options and an open platform. The possibilities are endless.

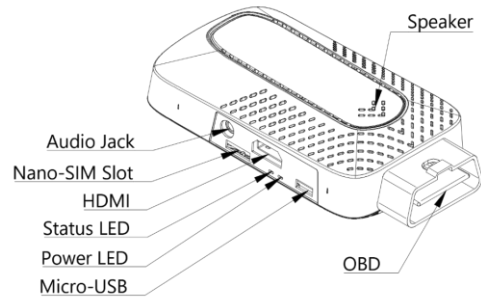
# Technical Specifications

Processor	Broadcom BCM2837B0, Cortex-A53 (ARMv8), 64-bit quad-core SoC @ 1.4 GHz (built-in Raspberry Pi 3 model A+) <b>Upgrade (RPI3 B+):</b> Broadcom BCM2837B0 quad-core A53 (ARMv8) 64-bit @ 1.4GHz <b>Upgrade (RPI4 B):</b> Broadcom BCM2711, Quad core Cortex-A72 (ARM v8) 64-bit SoC @ 1.5GHz
Memory	512MB LPDDR2 SDRAM (built-in Raspberry Pi 3 model A+) <b>Upgrade (RPI3 B+):</b> 1GB LPDDR2 SDRAM <b>Upgrade (RPI4 B):</b> 2GB, 4GB or 8GB LPDDR4-3200 SDRAM (depending on model)
Storage	32GB Micro SD Card High Endurance Class 10 UHS-1 (Raspbian Jessie OS and AutoPi Core software installed) <b>(Upgradeable to 128GB)</b>
Size and Weight	<p><b>Depth:</b> 137mm/4.7" <b>Height:</b> 36mm/1.4" <b>Width:</b> 66mm/2.6"</p> 
Modem	Integrated 4G/LTE Cat 4 connection (3G/EDGE fallback) 150Mbit DL / 50Mbit UL Worldwide support in a single device <b>4G LTE Bands (Global):</b> B1 / B2 / B3 / B4 / B5 / B7 / B8 / B12 / B13 / B18 / B19 / B20 / B25 / B26 / B28 / B38 / B39 / B40 / B41 <b>3G Fallback (WCDMA):</b> B1 / B2 / B4 / B5 / B6 / B8 / B19 <b>EDGE Fallback:</b> B2 / B3 / B5 / B8 / Quad-band
Certifications	EN 301 489-1 v2.2.0 EN55025:2008 EN 50498 and Directive 2004/104/EC ISO 7637-2:2011 EN 301 489-3 V2.1.1 FCC 47 CFR Part 15, Class A:10-1-17 Edition
GPS	Integrated GPS + A-GPS <b>Supports:</b> GPS/GLONASS/BeiDou/Galileo/QZSS
Power	<b>Line Voltage:</b> 12.5V AC (Car battery power). Up to 35V (Trucks). Support for trucks with up to 35V Built-in Power Management system to prevent the vehicle's battery from being drained
Expansion	<b>1 X USB:</b> Highspeed Micro USB 2.0 <b>GPIO:</b> UART/I2C/SPI
Wireless	Built on Cypress CYW43455 Chipset <b>WiFi:</b> 2.4GHz and 5GHz IEEE 802.11.b/g/n/ac wireless LAN <b>Bluetooth:</b> Bluetooth 4.2 + Bluetooth Low Energy (BLE)
Accelerometer	3-Axis accelerometer Up to +/-8g dynamical range Output data range up to 800Hz
OBD-II	STN2120 OBD-II, SW-CAN, MS-CAN to UART interpreter IC <b>Supported Protocols:</b> ISO 15765-4, ISO 14230-4, ISO 9141-2, SAE J1850 VPW, SAE J1850 PWM, SW-CAN, MS-CAN, ISO 15765, ISO 11898, SAE J1939
Input slots	<b>SD Card:</b> Included (See storage) <b>SIM Card:</b> Nano SIM – <i>Not Included</i>
Audio	Built-in speakers Mini Jack out (audio)
Video Out	HDMI @ 1080P60 Video Output
Absolute Maximum Operating Environment	<b>Operating Temperature:</b> -20° TO 70° C (-4° TO 158° F) <b>Relative Humidity:</b> 0% TO 75% Noncondensing
Operating System	Raspbian OS with preconfigured AutoPi Core

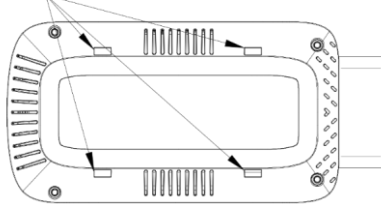
## Improved expansion options

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Easier access to expansion ports



Mounting holes



Mounting holes for strips  
or click fasteners

## Connect multiple external antennas

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Connect external 4G/LTE or GPS  
antennas with SMA connectors

