

## AUTOPI CAN-FD PRO

CAN Bus data logger for professionals



Ⓞ **4G/LTE with global coverage**

The integrated modem with worldwide coverage.

Ⓞ **Built in 2x CAN-FD interface**

Automotive connection with dual CAN-FD.

Ⓞ **Factory integrated unit or aftermarket add-on**

Use as a factory integrated OEM device or aftermarket add-on.

Ⓞ **Integrated power-safe functionality**

Proven and experienced power fail-safe functionality integrated.

Ⓞ **Runs full Linux OS**

Boost a well proved and tested OS, with guarantee for stability.

Ⓞ **Can be extended to almost any usage**

Allows extension to a wide range of use cases.

Ⓞ **Upgraded Memory/Storage**

Upgrade with 32GB storage and 4GB memory.

Ⓞ **Automotive certified (CE/FCC)**

Certified to automotive standards for global usage.

Ⓞ **Security element**

Secure and encrypt your data.

Ⓞ **External antennas**

External SMA connector for 2× 4G/LTE. 1x GPS and 1x WiFi/BLE.



Bluetooth



Raspberry Pi  
Compute  
Module 4



Security  
Element



HDMI Port



USB Ports



Voice Speaker



GPS/GLONASS



WiFi



Accelerometer /  
Gyroscope



2x Dedicated  
CAN-FD



4G/3G LTE  
Cat 4 Modem



Native Real-time  
Clock

# TECHNICAL SPECIFICATIONS

AutoPi.io

Processor	Broadcom BCM2711 Quad-core Cortex-A72 (ARM v8) 64-bit SoC @ 1.5GHz
Memory	4GB LPDDR4 SDRAM
Storage	32GB on board eMMC
Size and Weight	<b>Size:</b> L: 133,5mm H: 36,6mm W: 68,2mm <b>Weight:</b> 170g
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
Security Element	<ul style="list-style-type: none"><li>• Hardware Based Secure Key Management</li><li>• Public Key Algorithms: RSA and ECC asymmetric, AES and DES symmetric cryptography algorithms. HMAC, CMAC, SHA-1, SHA-224/256/384/512 operations</li><li>• Crypto Curves: ECC NIST, Brainpool, Twisted Edwards Ed2551, Montgomery Curve25519, Koblitz, Barreto-Naehrig Curve, Montgomery Curve448</li><li>• Secure Storage of Keys, Certificates and Data</li><li>• Unique Serial Number</li><li>• Intrusion Detection</li></ul>
GPS	Integrated GPS + A-GPS. <b>Supports:</b> GPS/GLONASS/BeiDou/Galileo/QZSS
Power	<b>Line Voltage:</b> 12.5V DC (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 <b>Power Consumption:</b> Deep-sleep: 6mA. Sleep: 35mA. Active/Wake: ~150mA.
Expansion	<b>2 X USB:</b> USB 2.0 (Max. theoretical power 2.1A divided between the two ports) <b>Ethernet:</b> Built in Gigabit Ethernet <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 5.0 + Bluetooth Low Energy (BLE)
Accelerometer	Built in 3-axis accelerometer
Gyroscope	Built in 3-axis gyroscope
Automotive Interface	<b>2 X CAN-FD:</b> CAN-FD interface with up to 5Mbps Data rate with integrated CAN data filter <b>DoIP:</b> Upgradeable to allow support for DoIP
Input slots	<b>SIM Card:</b> Nano SIM – Not Included
Audio	Built-in speakers
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

