

## Connected Car Access Point (CCAP)

CCAP is an in-vehicle hardware/software platform that offers OEM's, Tier 1's, and the aftermarket a flexible system for connecting vehicles to the internet and provides two-way communication for infotainment, navigation, vehicle diagnostics, and security from a central location via Wi-Fi.

This "black box" solution can be installed under the dash or other out of sight locations for security reasons. The CCAP's small size (6"L x 3.25"W x 1.25"H) makes installation an easy process.

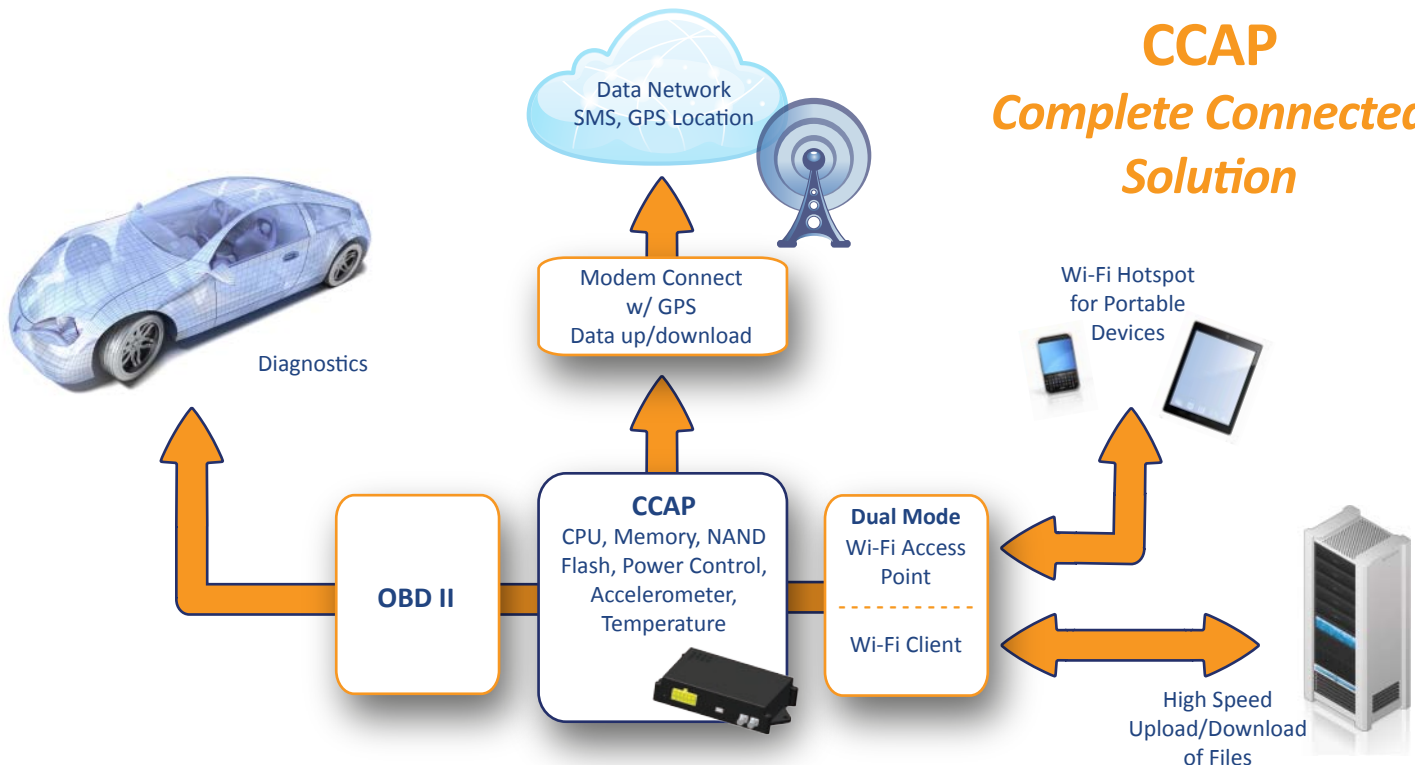
Qualnetics will work with you to integrate CCAP to your back-end systems for efficient data exchange and on-going system enhancements.



### Specific Capabilities

- 3G/4G interface to the internet for upload and download of data
- User interface via wireless tethering of smartphone/tablet/PC in vehicle
- Wi-Fi Client for syncing with business/home server wirelessly
- Wi-Fi Access Point for all vehicle occupants
- GPS for navigation and vehicle location/tracking
- Vehicle diagnostics via interface to the OBD II
- Accelerometer with gyro and digital compass for monitoring driver behavior
- General purpose 12v I/O for remote start, door lock, and security
- Customizations available for preferred components and interfaces

### CCAP Complete Connected Solution



## CCAP HARDWARE AND SYSTEM SOFTWARE

FEATURES	BENEFITS
CPU – 500Mhz ARM 11 core	Substantial processing power for speed and multitasking
DDR2 SDRAM – 128MB	Ample room for application software
NAND Storage – 2GB to 8GB	Flexibility to suit the application
Modem – Socketed in mini PCIe	Modular Modem Socket allows for choice of modem/carrier. Modems selected are pre-certified by the carriers to assure compatibility
Wi-Fi – Dual mode	Wi-Fi module can switch between Access Point for passengers in the vehicle and Client mode for quick upload and download of data with the vehicle
OBD II Interface	Contains OBD II interface stack to avoid complex software development and easy installation
Accelerometer with gyro and digital compass	Maximum accuracy and flexibility
Optional Display	Choice of display to fit application
GPS – Dedicated	Faster response times, greater accuracy than AGPS
Antenna(s) – Internal or external	Flexibility for environment and budget
O/S – Microsoft CE 6 R3	Robust, proven, and supported by Microsoft **Available upgrade to Windows Embedded Automotive 7
Battery	Isolate Telematics device from power disruptions and allow wake up mode
Power Management System	Supports low power mode and remote wakeup
Small form factor (134mm x 83mm x 22mm)	Convenient installation under dash or other more secure out-of-site locations in vehicle
Customizable Telematics Service Provider Shell	A core application that provides operating personality for the CCAP and interfaces to the Telematics Service Provider's back end

## QUALNETICS

Qualnetics specializes in Telematics products and engineering services using the Windows Embedded suite of products. Since its founding by Microsoft veterans in 2003, Qualnetics has garnered a trusted reputation for its engineering successes in the telematics industry. Our team is skilled at unleashing the full power of Windows Embedded Automotive 7, Windows CE, and Windows Mobile.

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