

PARROT PRODUCT DATASHEET

Parrot[®]

FC7100

Version 2.6

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Confidential information

FC7100

Full connectivity module with Android OS.

Bluetooth 4.0 LE – WiFi a/b/g/n – GPS

LCD and Multi cameras connectivity.



Applications:

- Smartphone Android Apps platform
- Turn-by-turn GPS Navigation
- Internet access (through 3G USB dongle, Bluetooth Dun, Pan, 3G+ module)
- HMI Display via LCD screen
- Telephony voice recognition
- Multimedia voice recognition
- Voice destination entry
- Message dictation
- USB & iPod management
- Multi cameras management with Driver assistance use-cases implementation (ADAS).
- Audio & Video Media sharing by UPnP (DMC, DMR and DMS).
- Video stream reception and decoding
- Telephony & Audio streaming
- Mirrorlink & Miracast Terminal mode

The FC7100 employs the ANDROID OS.

The FC7100 is designed as an open platform for any Android apps intended for a mobile phone such as news, games, productivity, multimedia, navigation.

The FC7100 embed all of the automotive dedicated Parrot Libraries, native running on Linux:

- USB devices and iPod, iPhone, with database for metadata

- Voice recognition for telephony features, navigation destination entry or multimedia selection
- Local and connected voice recognition engine
- Bluetooth with a very high level of compatibility with most of the phones available on the market and phonebook synchronization.

Technical Features:

- Dual LCD Management – 24 bits & 8 bits ITU656
- Bluetooth 4.0 LE qualified module
- Wifi a/b/g/n – 2.4 & 5 GHz
- Built-in GPS receiver
- Standard single 3.3V supply
- Full connectivity (UARTs, I²C, SPI, GPIO, USB) with external modules and chips: MHL, HDMI, Ethernet, NAD, TV, Radio, Mems sensors, Apple IC.
- 2*USB 2.0 High Speed – Host
- Ethernet interface
- Digital audio in and out - I²S
- Up to 3 cameras input – 8/16 bits ITU656
- Module dimensions 80.6*46.6*4.16 mm
- Automotive qualified AEC-Q100
- 2 x SDcard support – SDXC

The FC7100 platform provides a full API, to access Parrot Libraries and to enhance Android basic features.

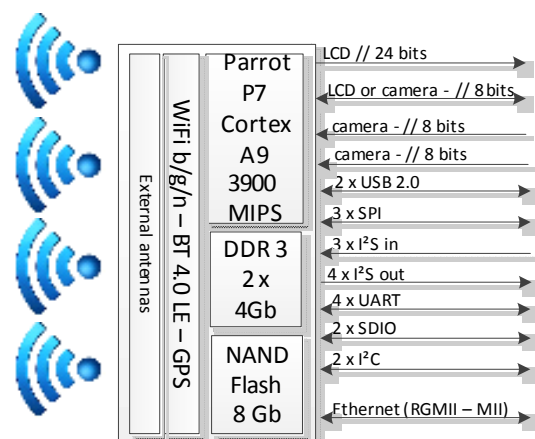


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1 Introduction

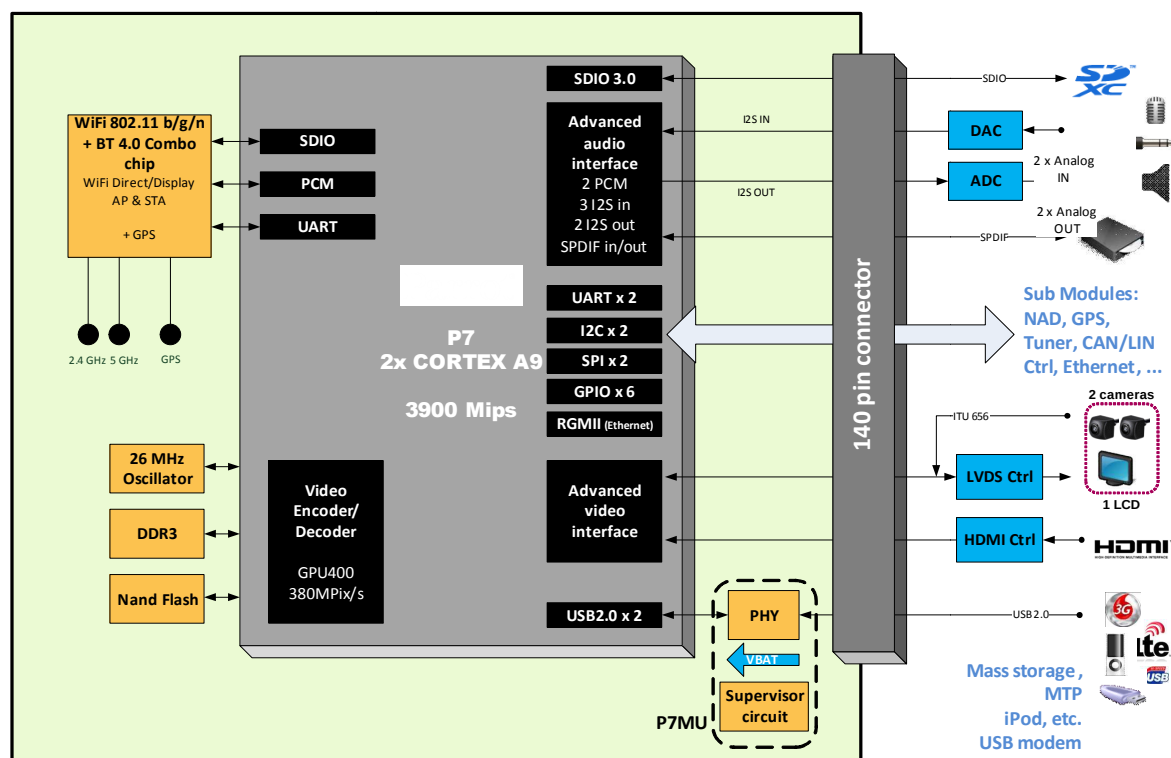
Parrot has initiated the integration of Android in an automotive environment. Customers can now use in their car all the features they use today in **their smartphones**: telephony, music, video, Internet and connected Apps.

Parrot's Next Generation FC7100 delivers the best features of today's smartphones and integrates them into the vehicle. FC7100 enables a true **connected Infotainment open platform based on Android**. It is designed to run **Android Apps in an automotive environment**.

FC7100 brings also camera connectivity and automotive videos treatments (bird view, rear camera, front line detection, drowsiness detection).

FC7100 enhances the voice recognition interface with a hybrid voice recognition engine (local and remote) allowing voice destination entry, messages dictation, multimedia voice requests, apps launching and Text-To-Speech (TTS).

Parrot has adapted the Android framework for automotive use cases. FC7100 embeds also the **standard suite of Parrot automotive libraries for connectivity** (Bluetooth, USB, Wi-Fi, Voice Recognition, and TTS etc.)



The combination of the Android framework and the Parrot Automotive libraries provides a complete ready solution for vehicle manufacturers to launch a **modern automotive infotainment platform** which is **always connected (Internet, connected Apps)** and remains up-to-date (**ability to download new Android Apps, update existing Apps, accessing to a customer app store** etc.). The portfolio of Android Apps will be now available to users in the vehicle.

With FC7100, Parrot provides a **time-to-market solution to vehicle manufacturers**:

- ✓ Complete hardware and software **automotive open platform**
- ✓ **Reduced** development **time and engineering costs**
- ✓ **Android** ecosystem



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- ✓ Built-in video hardware encoder and decoder, with Mali-400 GPU embedded allowing HD video playback and best-in-class HMI
 - ✓ Multiple video interfaces and Ethernet connectivity for multiple cameras and multiple LCD screens interface.

