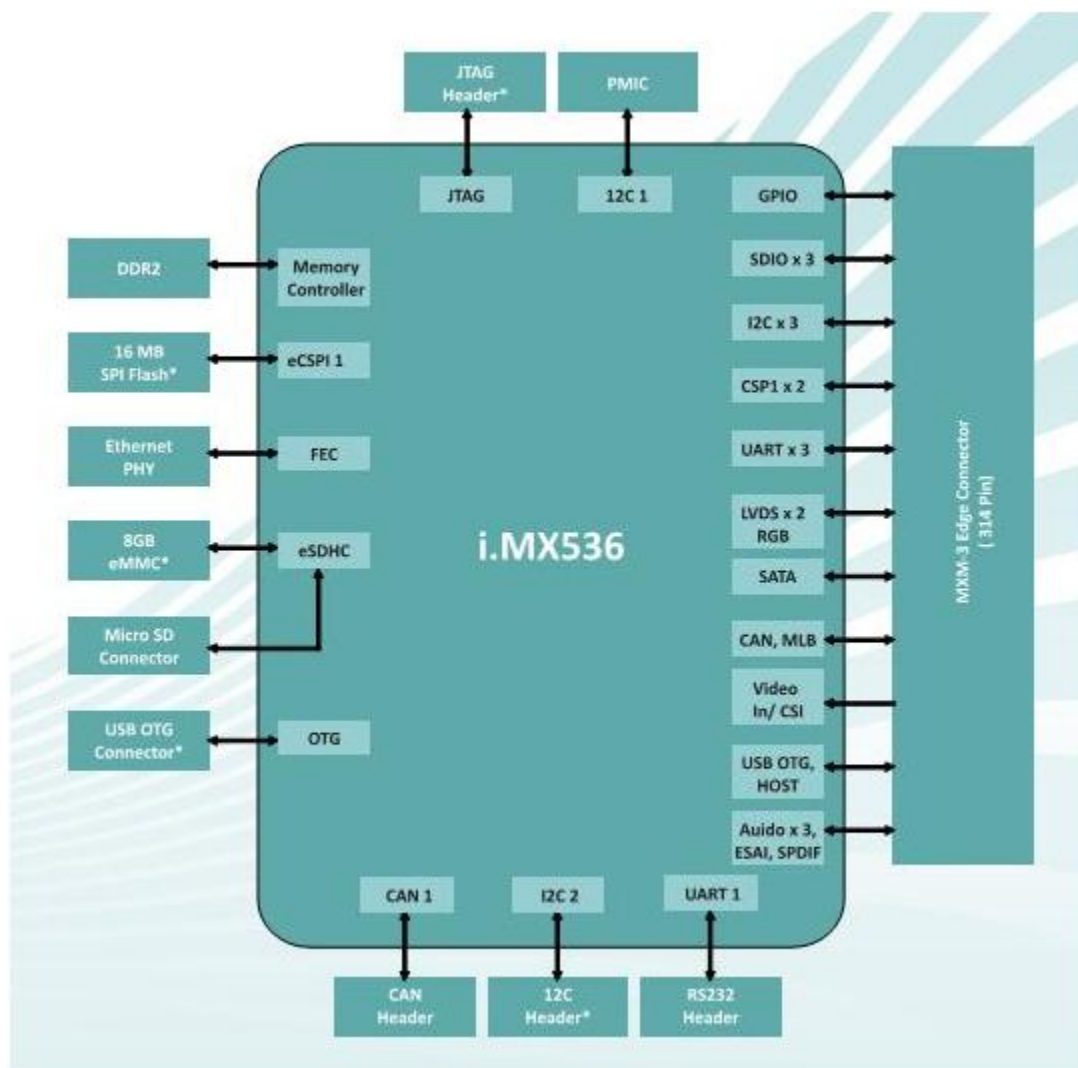


iWave Systems Technologies Pvt .Ltd's i.MX53 - an ideal solution for Automotive applications

iWave's i.MX53 SOM & i.MX53 Development Platform are the latest addition to its growing family of multimedia focused products offering high performance processing with a high degree of functional integration aimed at the growing Automotive Infotainment, Video & navigation, Display based instrument cluster markets.

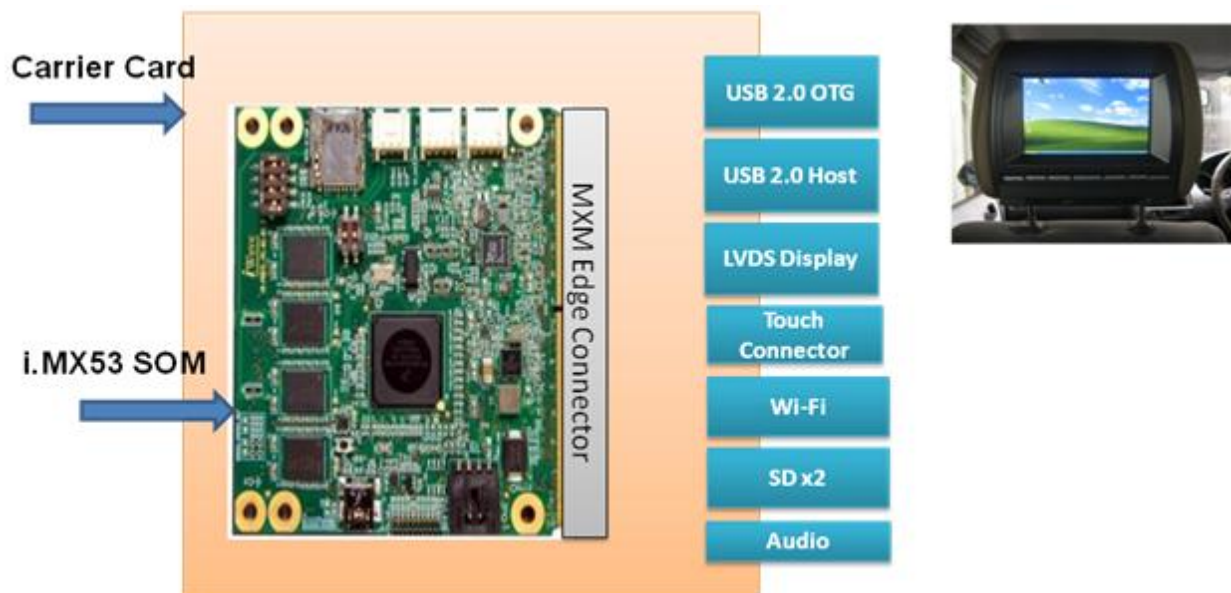
The i.MX53 SOM module is based on Freescale's i.MX536 ARM Cortex A8 processor supported with major operating systems like Windows Embedded Compact 7, Android 2.3, Linux 2.6.35 and QNX. A dedicated image processing unit available inside the i.MX53 processor offloads the main core by performing HD video processing for multimedia applications.



The key features of the i.MX536 processor includes high performance ARM Cortex A8 core, Open GL ES 2.0 3D accelerator and Open VG 1.1 graphic accelerator, multi-format HD 1080p video decode, multi-format HD 720 video encode and high quality video processing.

The SOM integrates on board 512MB/1GB/2GB DDR2 RAM, 8GB eMMC4.41 Flash, 16MB SPI Flash, 10/100Mbps Ethernet PHY and micro SD slot. The module supports MXM-3 form factor of size 85mm x 85mm and MXM3 edge connector for IO expansion to support Dual LCD, Dual Camera, USB2.0, SATAII, SD/SDIO, CAN, MLB, ESAI, SSI, SPDIF, Video-In, SPI, I2C, UART and various IO interfaces. This SOM supports automotive grade temperature and fan-less operation which ideal for automobile environment.

This following illustration shows typical Automobile IVI (In-Vehicle-Infotainment) application based on the i.MX536 MXM SOM.



This typical IVI has the following features

- Dual Independent Display
- Wi-Fi through SD
- Camera through CSI
- 3G module through USB
- GPS module through UART
- Audio through I2S
- OS: Android

The i.MX53 Development Platform is a designer friendly kit created keeping in mind the surging industrial demands. The kit being a complex integration simply hosts the features which are well suited to the ethicality of the industries like Automotive, Telematics, HMI and Display based clusters.

Efficiency and efficacy are achieved because of the numerous on-board interfaces like USB, SD, Dual CAN & LCD, GPIOs, etc. It provides High performance video graphics support. The 1080 i/p video processing makes viewing and toggling around fun even in recursive usage.



The i.MX53 Reference Platform supports multiple OS like WINCE7, Linux, Android, QnX *etc.

This Platform facilitates shorter development life cycle thereby enabling Quick Customization Services that benefit "Time-To-Market".

Jotting down its features All-in-One:

- 7" Parallel RGB LCD , LVDS1, LVDS2
- HDMI out /DVI out through external HDMI/DVI transmitter
- TV in or DVD in
- RTC Battery, Resistive touch controllers, Multi touch*
- External Audio Codec, Head phone In/Out, MIC, Speaker
- SATA for mass storage
- 2 USB Host, 1 USB OTG, UART, CAN -2 Ports
- 10/100Mbps Ethernet through RJ45
- WLAN through SD Connector
- MLB, SPI, I2C, ESAI, Keypad, GPIOs
- Bluetooth through USB

With all the diverse & essential features on it, i.MX53 can be regarded as a Complete One Stop Solution....

Watch the video on, <http://www.youtube.com/watch?v=gugjg2Wibz4>

For more details visit,

<http://www.iwavesystems.com/?q=node/139>

<http://www.iwavesystems.com/?q=node/130>