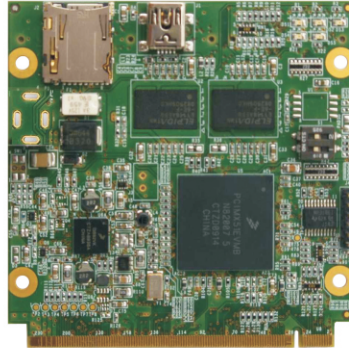
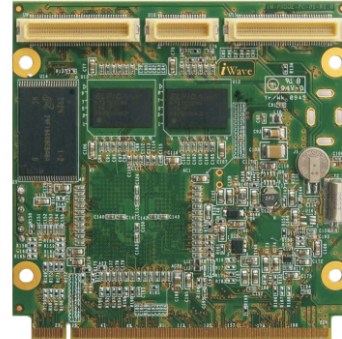


iW-i.MX51 SOM is based on Freescale's i.MX515 multimedia application processor. The processor features advanced and power-efficient implementation of the ARM Cortex A8™ core, which operates at speeds of 800 Mhz. This module provides advanced peripheral integration, power savings, reduced time to market and it can be used for wide range of verticals / applications including Industrial, Medical, Smartbook, Security / Surveillance, Digital Signage etc.



TOP VIEW



BOTTOM VIEW

iW- i.MX51 SOM

❖ Processor

- ❖ Freescale's i.MX51 @ 800 MHz
- ❖ OpenGL ES2.0 & OpenGL ES2.0 H/W Accelerators
- ❖ Multi-format HD720p Video Decoder H/W Engine
- ❖ D1 Video Encoder H/W Engine

❖ PMIC

- ❖ MC13892 + RTC

❖ Operating System

- ❖ Linux 2.6.28

❖ Memory

- ❖ 128MByte to 512MByte DDR2 SDRAM
- ❖ 128MByte to 4GByte NAND Flash
- ❖ 2MB NOR Flash*

❖ Onboard I/O Interfaces

- ❖ USB 2.0 Host/Device*
- ❖ microSD
- ❖ UART interface (Debug)*

❖ Power

- ❖ 5V +/- 5% Input Supply

❖ Form factor

- ❖ 70mm x 70mm

❖ Expansion Connector Interface Details

- ❖ 230 pin Edge Connector
 - ◆ One Ethernet MII Interface
 - ◆ Two MMC 4.0 / SD Mem 2.0 / SDIO 1.2
 - ◆ Two I2C Interfaces
 - ◆ Two USB 2.0 Host
 - ◆ Two UART Interfaces
 - ◆ SPI Interface
 - ◆ SSI (Audio) Interface
 - ◆ CSI Interface-1
 - ◆ Display Interface-1
 - ◆ One-wire Interface
 - ◆ TV-Out
 - ◆ GPIOs
 - ◆ Power
- ❖ Expansion Connectors
 - ◆ NAND Flash (Expansion)
 - ◆ Processor EIM Bus (16 bit multiplexed bus)
 - ◆ 4 x 4 Keypad Interface
 - ◆ CSI Interface-2
 - ◆ Display Interface-2

* Optional

Customization Services:

iWave can provide customization services for developing designs based on iW-i.MX51 SOM / Development platform as per customer specific requirement and form factor.

About Us:

iWave Systems Technologies is an embedded hardware and software turnkey design services company, focused on providing integrated solutions for developing innovative products and systems in the areas of Communication, Multimedia, Consumer electronics, Industrial and Automotive. With its 10 year expertise combined with its current 130 strong team, iWave is poised to become an Independent design house for the high tech electronic systems.