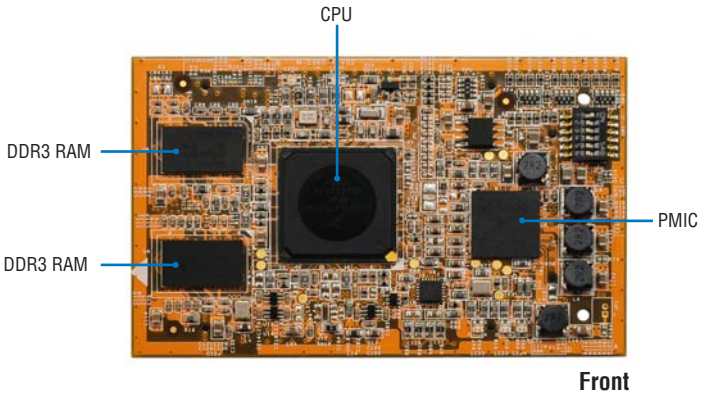
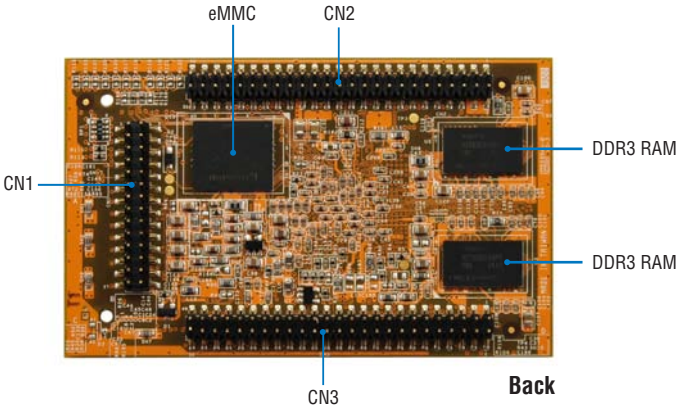
M-5360A

i.MX537 Cortex A8 System on Module



Front



Back

Features

- Freescale i.MX537 Cortex A8 800MHz
- 1GB DDR3 RAM
- 4GB eMMC Flash
- 24-bit LCD LVDS x 2
- Analog VGA x 1
- Support full HD 1080P video decode
- Support OpenGLE 2.0 & Open-VG 1.1
- 10/100 Mbps Ethernet x1 with Phy
- UART ports x 4
- USB 2.0 host and USB OTG
- SATA, SD, SPI, I2C, I2S, 1-Wire, GPIO and CAN 2.0
- OS: Linux, Android and Window Compact 7.0
- Operating Temperature: 0 to 70°C (32 to 158°F)

Introduction

M-5360A is a credit card size system on module powered by Freescale 800MHz i.MX537 ARM Cortex A8 processor with 1GB DDR3 RAM, 4GB eMMC Flash. It is designed not only for devices that require Human Machine Interface (HMI) but also an ideal solution for Kiosk, Point of Sales and Information and gaming machine. M-5360A features dual channels of LVDS LCD display and one VGA port which are ready for users to use either internal LCD or external VGA monitor. The multimedia graphic engine of i.MX537 provides 2D and 3D graphics and video decoding functions up to 1080P. In addition to the multimedia capability of i.MX537, M-5360A also features powerful communications such as Ethernet, RS-232, RS-485, CAN 2.0 and USB for embedded application such as M2M, telematics and SCADA.

Specification

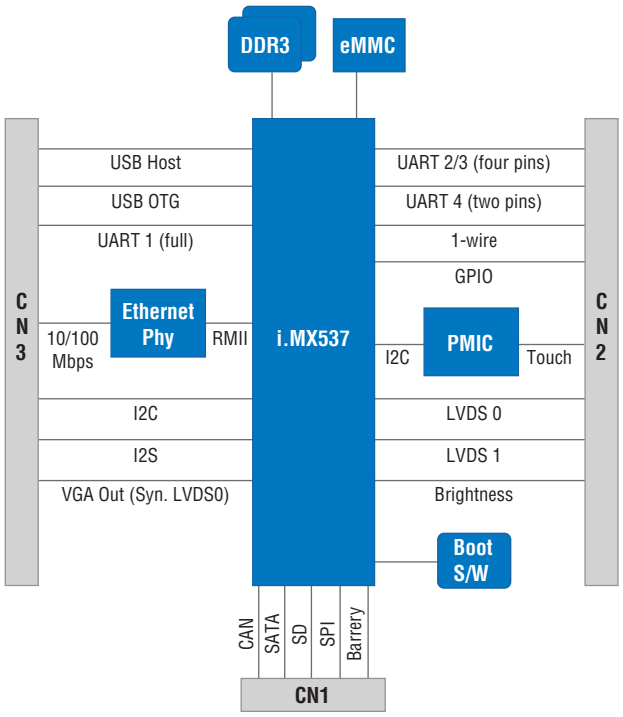
System

CPU	Freescale i.MX537 Cortex A8 800MHz
RAM	1GB DDR3 RAM
Flash	4GB eMMC
LCD	24-bit LCD LVDS x 2 up to 1600 x 1200pixels
VGA	Analog VGA out x 1 (Sync. with LVDS port0)
Multimedia	1080P Full HD
2D/3D Accelerator	OpenGLE1.1&2.0 OpenVG 1.1
RTC	Yes
Watchdog	Yes
Battery	External

I/O & Ethernet

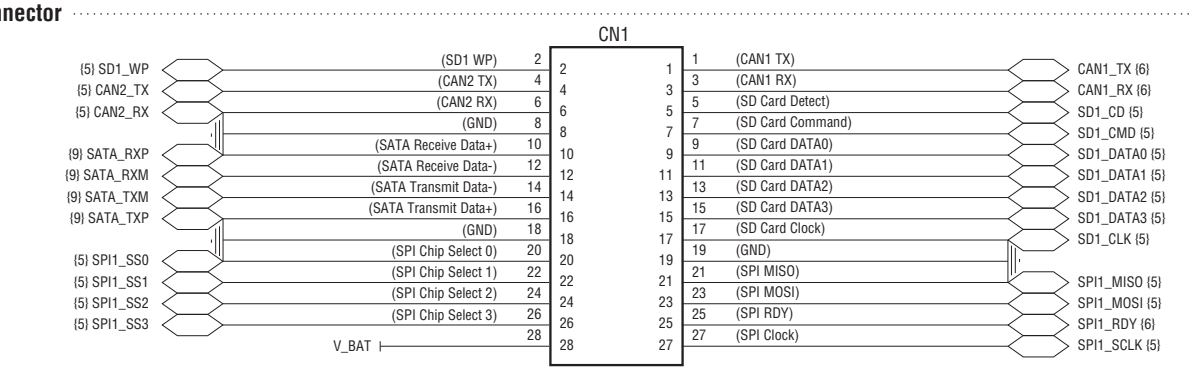
Ethernet	10/100Mbps x 1 with Phy
UART	3 x 921.6Kbps COM1: TX, RX, RTS, CTS, DCD, DSR, DTR, GND COM2: TX, RX, RTS, CTS, DCD, DSR, DTR, GND COM3: TX, RX, RTS, CTS, GND COM4 (serial console): TX, RX, GND
USB	USB Host x 1, USB 2.0 high speed mode (480Mbps) USB OTG x 1
SD	SD card interface x 1, 32GB max.
SATA	SATA x 1
Touch Screen	4 wires
CAN bus	CAN bus x 2, CAN 2.0
Serial Interface	I2C x 1, I2S x 1, SPI x 1

Function Block



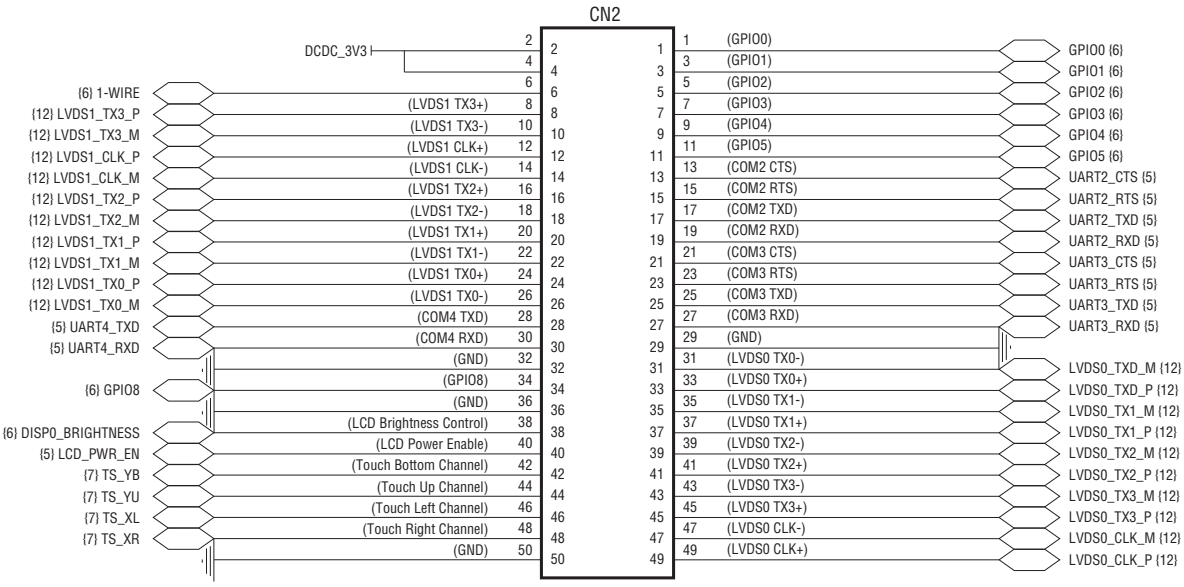
B2B Connector Pin Assignment

CN1_Connector



Header 14x2_2.0mm

CN2_Connector



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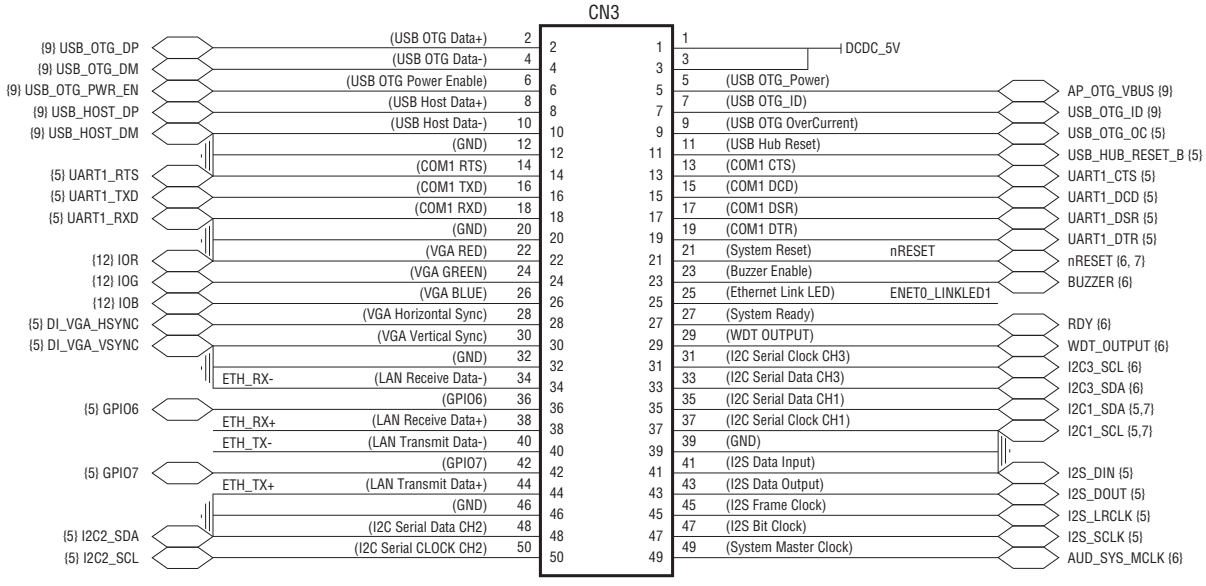
CN3_Connector



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