



Features

- Freescale i.MX51 800MHz
- Onboard 512MB DDR2 SDRAM
- Onboard 4GB eMMC
- 2 x USB, 1 x COM, 1 x Debug Port
- 10/100 LAN, SD Socket
- Fanless & Slim Design
- Single +12V

CH13

RISC Platform - System



Specifications

Panel

LCD Size	8"
Display Type	SVGA
Resolution	800 x 600
Pixel Pitch	0.0675mm (H) x 0.2025mm (V)
Luminance	250 cd/m ²
Contrast Ratio	400
Viewing Angle	50 (U), 70 (D), 70 (L), 70 (R)
Response Time	10ms
Backlight	LED
Touch Type	4-wire Resistive
Touch Light transmission	80%
Touch Controller	MC13892

System

SBC	RSC-IMX51
Processor	Freescale i.MX51 Multimedia Processor
System Chipset	i.MX51
I/O Chipset	N/A
System Memory	1 X Onboard DDR2 512MB
RTC	From MC13892
Watchdog Timer	Generates a Time-out Hstem Reset, Setting Via Software

Expansion & Storage

Storage	1 x On board 4GB eMMC
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I/O

USB	2 x USB 2.0, 1 x Mini-USB Connector
COM Port	1 x RS232(Debug Port) 1 x RS-232/422/485
Other	2 x Speaker, 1 x RJ-45, 1 x On/Off Switch 1 x Reset button, 1 x SD Socket Support SDHC (eSDHC-2)

Display

Chipset	IMX51 Supports optional dual display
Resolution	HDMI : Max. resolution 720P @ 60Hz LVDS : Max. resolution 800x600 @ 60Hz

Audio

Chipset	SGTL5000
Audio Interface	Speaker Out
Speaker Output	2 x 2W

Ethernet

LAN Chip	1 x SMSC LAN8710A
Ethernet Interface	10/100 Base-Tx Fast compatible
LAN Port	1 x RJ-45

Power Requirement

Power Connector	Lockable DC Jack
Power Requirement	12V
Power Type	DC Input
Adapter	Input: 100 ~ 240Vac/ 50 ~ 60Hz Output: 60W Adapter (12V @ 5A Adapter)

Mechanical & Environmental

System Fan	Fanless
Construction - Front	Black
Construction - Rear	Black
Dimension	192*150*42.2mm
Weight	1.9Kg
Operating Temperature	0°C ~ 40°C (32°F ~ 104°F)
Storage Temperature	-20°C ~ 60°C (-4°F ~ 140°F)
Operating Humidity	0% ~ 90% Relative Humidity, Non-condensing
Vibration Test	With eMMC : 2Grms, IEC 60068-2-6, Random, 5 ~ 500Hz, 30min/axis
Shock Test	With eMMC : 10Grms, IEC 60068-2-29, Half Sine, 11ms

Certification & Software Support

Certification	CE, FCC Class A
OS Information	Android 2.3.4, Ubuntu 10.04, WIN CE 6.0

Ordering Information

FPC-08R1-M51-B1R

8" SVGA 4-wire resistive RISC Panel PC with RSC-IMX51