

# EF-51LF



Support ARM Cortex A8 Core / Freescale i.MX515 800MHz MPU / Low power consumption and cost-efficiency / Win CE6.0



## Features

- Freescale i.MX515 800MHz MPU has Low power consumption and cost-efficiency
- Support Freescale i.MX515 800MHz MPU( Cortex A8 Core)
- Memory support up to 512 MByte DDR2 SDRAM on board
- 2GB e-NAND for Storage
- Display support 18 bit TTL for 7" LCD Panel& 24 bit LVDS for 15" LCD Panel, Resolution up to WXGA(1280 x 800)
- Support 720p30 Video decode
- Support Windows CE 6.0 OS

## Specifications

### System

CPU Support	Freescale i.MX515 800MHz
OS Image	OS Microsoft Windows CE 6.0
Display	Display 1-24 bit TTL transfer LVDS Display 2-18 bit TTL for 7" Resolution up to WXGA(1280 x 800) Support 720p30 Video Decode Support Video Decode (MPEG-2,H.264,VC1,MPEG-4, H. 263, DivX, VC1) GPU Support OpenVG 1.1,& OpenGL/ES 2.0
LAN Chip Type	Single Ports; RJ45 connector on board - XCVR PHY 10/100MBPS (SMSC LAN8710A)
Memory	Up to 512 MByte DDR2 SDRAM on board
Flash	e-NAND 2GB
PMIC	Freescale MC13892JVK
Sound	Audio Codec(Freescale SGTL5000XNAA3R2)
WDT	Built-in Freescale i.MX515 MPU
Dimension	145 mm x 102 mm
Certificate	FCC / CE

### I/O Ports

LCD Interface	1 x 40 pin FPC connector for 7" TTL LCD 2 x 15 pin connector for 15" LVDS LCD
Serial Port	2 port on Board (1)COM1:D-Sub 9 pin (TX,RX,CTS,RTS) ; (2)COM2: 1x5 pin wafer(2.0mm pitch)for RS485 or RS232 (TX & RX signal)
LAN	1 x RJ45 connector (10/100 Ethernet)
Audio Codec	Audio Codec(Freescale SGTL5000XNAA3R2) Audio AMP (1) Phone Jack for Line-out/MIC (2) 1 x 2 pins internal speaker,
USB	5Port (1)1 port for USB2.0 OTG 2.0; (2)4 port for USB2.0 HOST ( from smsc 2514 USB HUB) 2 port for Internal Connector & 2 port for External Connector
Touch Panel	1 x 4 pin FPC connector for 4-wire 7" touch panel
Inverter	1 x 6 pin connector for 12V inverter
SD/MMC	1 x Micro SD slot,
Digital I/O	3 bit input and 3 bit output digital port availability(2x5 pin 2.0 mm wafer)
Keypad	Reserved Keypad connector for 48 key switch
System Status	1 x 2 pin for Power LED,

### Environment

Power Supply	Single DC IN (12V) Power Adapter
Operation Temp.	0° ~ 60° C ( 32° ~ 140° F )
Storage Temp.	- 40° ~ 85° C ( - 40° ~ 185° F )
Humidity	Operation humidity 20 ~ 90%, storage humidity 20 ~ 95%

\*All information contained in this document is subject to change without prior notice.  
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