

# EM-AT91SAM3U LCD Interface Expansion Board (EB-AT91SAM3U-LCD) User Guide

## 1 EB-AT91SAM3U-LCD Overview

The EB-AT91SAM3U-LCD is an extension board for the EM-AT91SAM3U Development Board (see [Figure 1](#)).

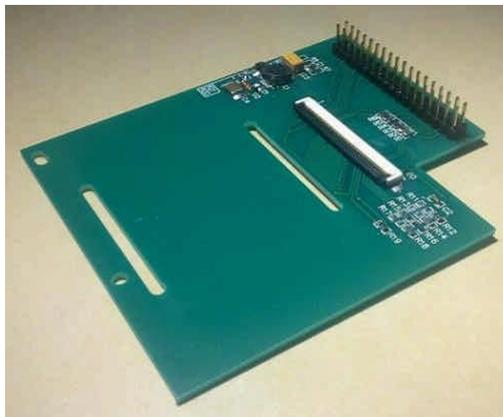


Figure 1. LCD connector expansion board for EM-AT91SAM3U

The expansion board has built in LED backlight driver circuit and 60pin FPC connector for the Kentec LCDs (3.5 inch: K350QVG-V2-F; 4.3 inch: K430WQC-V3-FF; 5.0 inch: K50DWN2-V1-FF; 7.0 inch: K70DWN2-V1-FF; 9.0 inch: K90DWN2-V1-FF).

## 2 EB-AT91SAM3U-LCD Dimensions

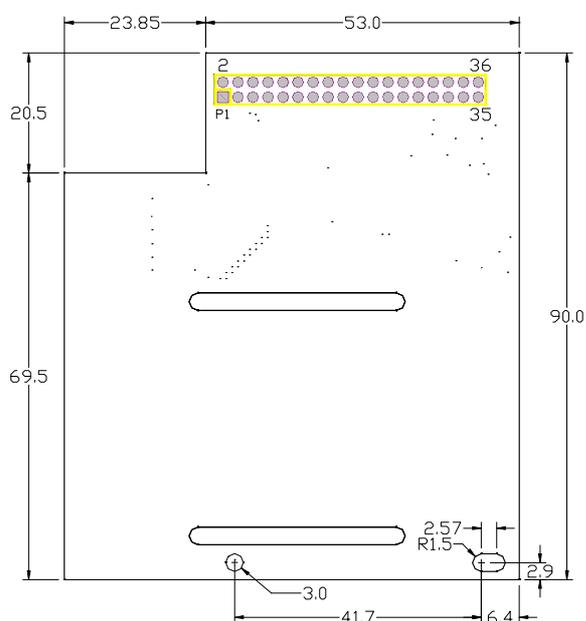


Figure 2. Outline Dimensions (Top)

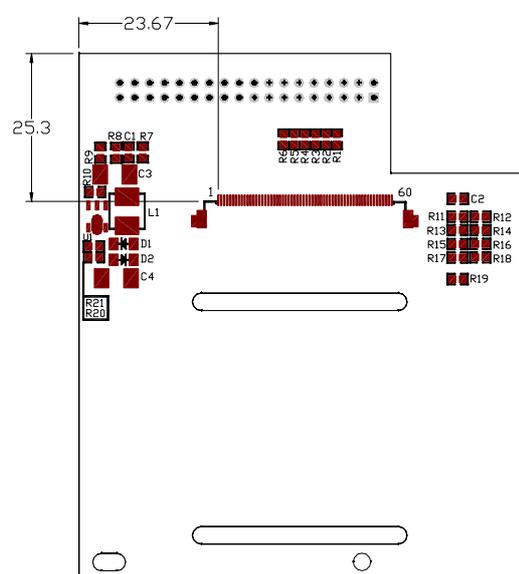


Figure 2. LCD connector Location (Bottom)

### 3 EB-AT91SAM3U-LCD Interface

**Table 1. Main Interface Signal (40pin header connect to EM-AT91SAM3U MCU board)**

Pin	Symbol	Description
1	CS	Chip select signal for LCD
2	RS	Command/Data control signal for LCD
3	WR	Write control signal for LCD
4	RD	Read control signal for LCD
5	D0	Data bit 0, default connected to GND on MCU board
6~13	D1~D8	Lower 8-bit data bus
14	D9	Data bit 9, default connected to GND on MCU board
15~22	D10~D17	Upper 8-bit data bus
23, 24	GND	Ground (0V)
25	Reset	Reset input signal for LCD
26	BL_ON	Backlight control input, "H": ON, "L": OFF, PWM for dimming control
27, 28	GND	Ground (0V)
29	XR	Reserved for 4-wire resistor touch screen terminal
30	YU	
31	XL	
32	YD	
33, 34	GND	Ground (0V)
35, 36	3.3V	Power Supply (3.3V)

**Table 2. LCD Interface Signal (60pin ZIF connector to LCD module)**

Pin	Symbol	Description
1, 2	LED_K	LED power supply (-)
3, 4	LED_A	LED power supply (+)
5	GND	Ground (0V)
6	XR	4-wire resistor touch screen terminal
7	YD	
8	XL	
9	YU	
10	GND	Ground (0V)
11~13	NC	No Connection
14	Reset	Reset input signal for LCD
15	CS	Chip select for LCD
16~19	NC	No Connection
20	D0	Data bit 0, default connected to GND on MCU board
21~25	D1~D5	Data bit 1 ~ bit 5
26, 27	NC	No Connection
28~30	D6~D8	Data bit 6 ~ bit 8
31	D9	Data bit 9, default connected to GND on MCU board
32, 33	D10, D11	Data bit 10 ~ bit 11
34, 35	NC	No Connection

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