

	PRODUCT GROUP	REV	ISSUE DATE
	TFT-LCD PRODUCT	Preliminary	DEC.23.14

TITLE : BOEI238WU1
Product Specification
Preliminary

K-TRONICS(SuZhou) TECHNOLOGY Co.,Ltd

SPEC NUMBER	SPEC. TITLE BOEI238WU1 Product Specification_Preliminary	PAGE 1 OF 26
-------------	---	-----------------

A4(210 X 297)

	PRODUCT GROUP	REV	ISSUE DATE
	TFT-LCD PRODUCT	Preliminary	DEC.23.14

REVISION HISTORY

REV	ECN No.	DESCRIPTION OF CHANGES	DATE	PREPARED

	PRODUCT GROUP	REV	ISSUE DATE
	TFT-LCD PRODUCT	Preliminary	DEC.23.14

Contents

No.	Item	Page
1.0	General Description	4
2.0	Absolute Maximum Ratings	6
3.0	Electrical Specifications	7
4.0	Optical Specifications	9
5.0	Interface Connection	11
6.0	Signal Timing Specifications	14
7.0	Signal Timing Waveforms of Interface Signal	16
8.0	Input Signals, Display Colors & Gray Scale of Colors	18
9.0	Power Sequence	19
10.0	Mechanical Characteristics	20
11.0	Reliability Test	21
12.0	Handling& Cautions	22
13.0	Product Serial Number	23
14.0	Appendix	24

SPEC NUMBER	SPEC. TITLE BOEI238WU1 Product Specification_Preliminary	PAGE 3 OF 26
-------------	---	-----------------

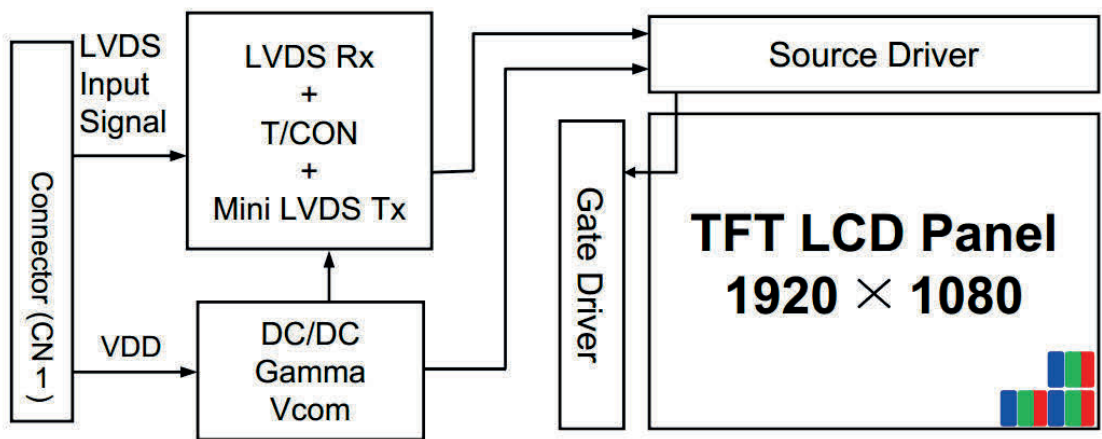
A4(210 X 297)

	PRODUCT GROUP	REV	ISSUE DATE
	TFT-LCD PRODUCT	Preliminary	DEC.23.14

1.0 GENERAL DESCRIPTION

1.1 Introduction

MV238FHB-N10 is a color active matrix TFT LCD open cell using amorphous silicon TFT's (Thin Film Transistors) as an active switching devices. This module has a 23.8 inch diagonally measured active area with FHD resolutions (1920 horizontal by 1080 vertical pixel array). Each pixel is divided into RED, GREEN, BLUE dots which are arranged in vertical stripe and this module can display 16.7M colors. The TFT-LCD panel used for this module is adapted for a low reflection and higher color type.



1.2 Features

- 1.2.1 LVDS Interface with 2 pixel / clock
- 1.2.2 High-speed response
- 1.2.3 6-bit (Hi-FRC) color depth, display 16.7M colors
- 1.2.4 High luminance and contrast ratio, low reflection and wide viewing angle
- 1.2.5 DE (Data Enable) only mode
- 1.2.6 RoHS/Halogen Free
- 1.2.7 Gamma Correction

SPEC NUMBER	SPEC. TITLE BOEI238WU1 Product Specification_Preliminary	PAGE 4 OF 26
-------------	---	-----------------

A4(210 X 297)

	PRODUCT GROUP	REV	ISSUE DATE
	TFT-LCD PRODUCT	Preliminary	DEC.23.14

1.3 Application

- 1.3.1 Desktop Type of PC & Workstation Use
- 1.3.2 Slim-Size Display for Stand-alone Monitor
- 1.3.3 Display Terminals for Control System
- 1.3.4 Monitors for Process Controller

1.4 General Specification

The followings are general specification at the model BOEI238WU1.

<Table 1. General Specifications>

Parameter	Specification	Unit	Remarks
Active area	527.04 (H) × 296.46(V)	mm	
Number of pixel	1920(H) × 1080(V)	pixels	
Pixel pitch	0.2745(H) × 0.2745(V)	mm	
Pixel arrangement	RGB Vertical stripe		
Display colors	16.7M	colors	
Display mode	Normally Black		
Dimensional outline	558.3*336.6*38.1	mm	
Weight	1.9+/-0.3	Kg	
Surface Treatment	Haze 25%, 3H		
Back-light	DLED,2-LED BAR		
Power Consumption	P _D :3(typ)	w	
	P _{BL} : 13.86(typ)	w	
	P _{total} :16.86 (typ)	w	

SPEC NUMBER	SPEC. TITLE BOEI238WU1 Product Specification_Preliminary	PAGE 5 OF 26
-------------	---	-----------------

	PRODUCT GROUP	REV	ISSUE DATE
	TFT-LCD PRODUCT	Preliminary	DEC.23.14

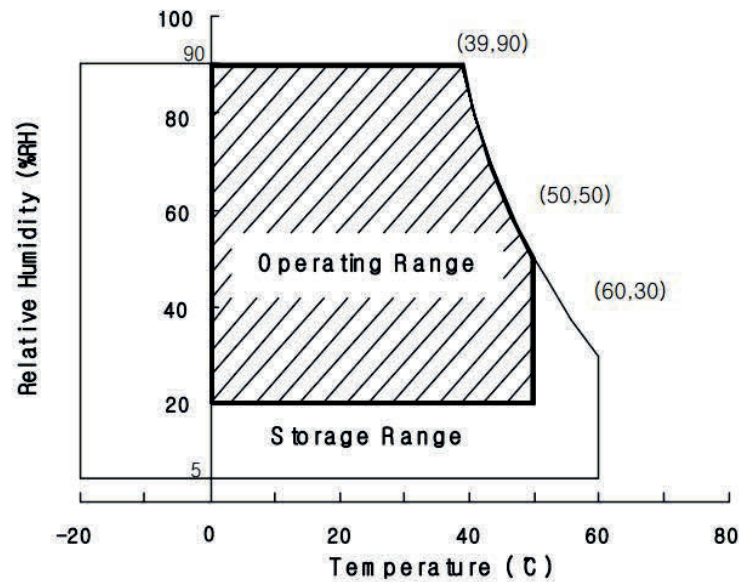
2.0 ABSOLUTE MAXIMUM RATINGS

The followings are maximum ratings which, if exceed, may cause faulty operation or damage to the unit. The operational and non-operational maximum voltage and current are listed in Table 2.

< Table 2. Open Cell Electrical Specifications > [VSS=GND=0V]

Parameter	Symbol	Min.	Max.	Unit	Remarks
Power Supply Voltage	V _{DD}	-0.3	6.0	V	Ta=25℃
Logic Supply Voltage	V _{IN}	V _{SS} -0.3	V _{DD} +0.3	V	
LED Light Bar Current Per Input Pin	I _{PIN}	-	350	mA	
LED Light Bar Voltage Per Input Pin	V _{PIN}	34.8	42	V	
Operating Temperature	T _{OP}	0	+50	℃	Note 1
Storage Temperature	T _{ST}	-20	60	℃	Note 1

Note 1: Temperature and relative humidity range are shown in the figure below.
Wet bulb temperature should be 39 ℃ max. and no condensation of water.



SPEC NUMBER	SPEC. TITLE BOEI238WU1 Product Specification_Preliminary	PAGE 6 OF 26
-------------	---	-----------------

A4(210 X 297)

以上内容仅为本文档的试下载部分，为可阅读页数的一半内容。如要下载或阅读全文，请访问：<https://d.book118.com/078021001132006121>