

SPECIFICATION

MODEL NO: HS-128-LAU-0811

APPLICATION AREA	SEMI OUT DOOR
LED TYPE	LAMP LED
COLOR	RED COLOR
ISSUED DATE	2008. 01. 14
REVISION DATE	2008. 01. 14

ISSUE DEPT.			SBU		QRA	
ISSUE	REVIEW	APPR'L	REVIEW	APPR'L	REVIEW	APPR'L

[CUSTOMER APPROVAL]

1.PHOTOGRAPH

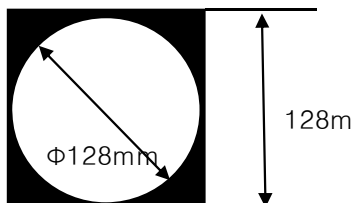
2.FEATURES

ITEM	DESCRIPTION
DISPLAY SIZE(W×H×D)	128 × 128 × 30(mm)
DOT PITCH	8mm
DISPLAY COLOR	(RED,YELLOGREEN,AMBER)
DUTY RATE	1/8 DUTY
DOT MATRIX	256(16 × 16)
WEIGHT	
VIEWING ANGLE	

3.OPTICAL CHARACTERISTICS

ITEM		SIMBOL	MIN	TYP	MAX	UNIT
BRIGHTNESS	RED	IV _r		700		cd/m ²
	YG	IV _r		600		
EMISSON WAVELENGTH	RED	λ _{p_r}		620		nm
	YG	λ _{p_r}		575		

■TEST AREA



H S E	REV.NO	DEVICE	PAGE
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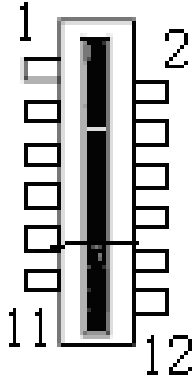
4.ELECTRICAL CHARACTERISTICS

$T_a = 5^\circ\text{C}$

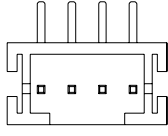
ITEM		MIN	TYP	MAX	UNIT
DC SUPPLY VOLTAGE	CIRCUIT		5.0	5.5	V
	LED		5.0	5.5	V
DC INPUT VOLTAGE	CIRCUIT	$V_{cc}-0.3$	V_{cc}	$V_{cc}+0.3$	V
	LED				V
CURRENT CONSUMPTION	CIRCUIT		0.3		A
	LED		3.0		A
TEMPERATURE	OPERATING	-25		+45	$^\circ\text{C}$
	STORAGE	-25		+85	$^\circ\text{C}$
INPUT LEVEL	LOW			0.8	V
	HIGH	2.4			V
CLOCK FREQUENCY			15.0		MHz

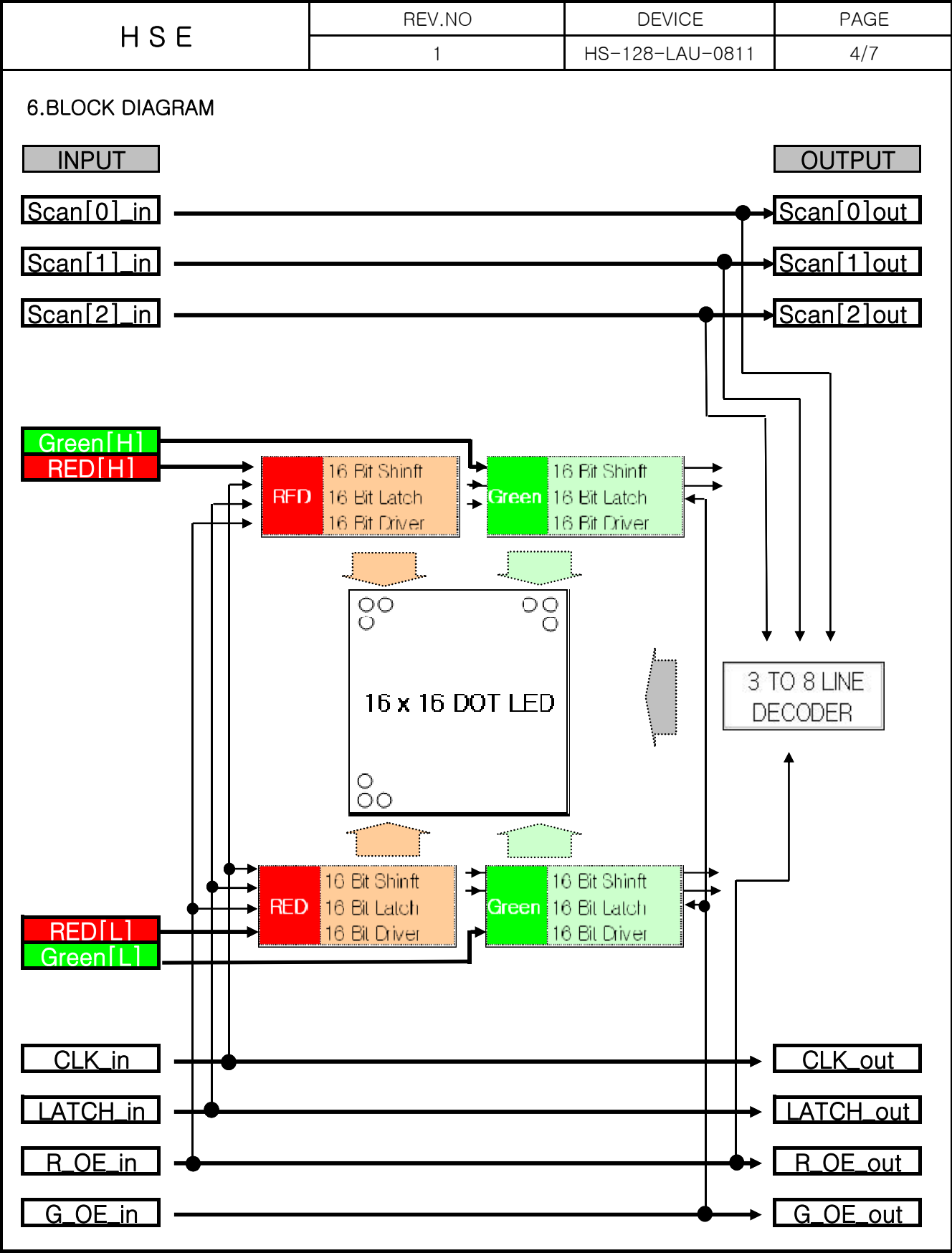
5.FUNCTION

5-1. SIGNAL FUCTION

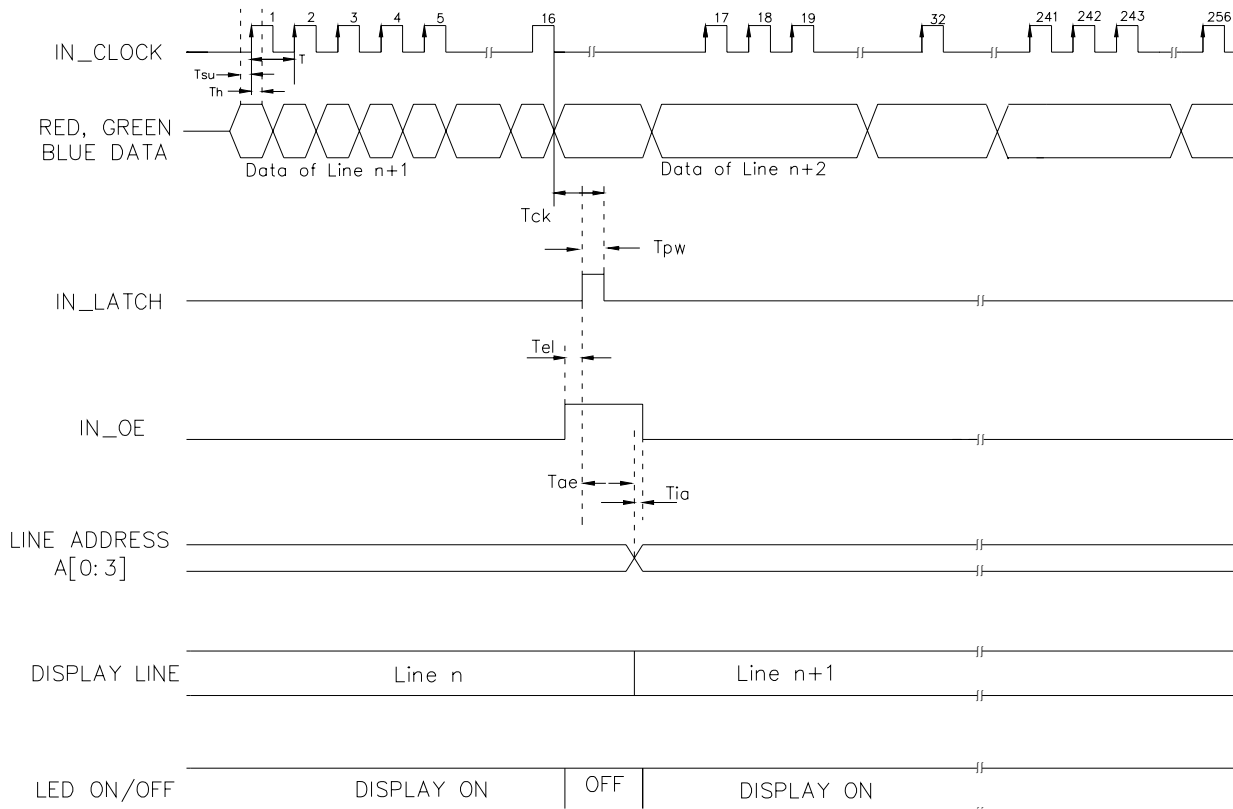
PIN NO	NAME	FUNCTION DESCRIPTION	FEATURE
1	GD_0	Data Input_High Green Color	
2	GD_1	Data Input_Low Green Color	
3	NC		
4	OE	Panel Bright Control	
5	LATCH	Data Strobe	
6	CLK	Data Shift	
7	RD_0	Data Input_High RED Color	
8	RD_1	Data Input_Low RED Color	
9	SC_0	Data Line Address Scan0	
10	SC_1	Data Line Address Scan1	
11	SC_2	Data Line Address Scan2	
12	GND	Signal Ground	

5-2. POWER FUCTION

PIN NO	NAME	FUNCTION DESCRIPTION	FEATURE
1	VCC_L	Supply Voltage _ LED	
2	GND	Signal Ground	
3	GND	Signal Ground	
4	VDD	Supply Voltage _ Circuit	



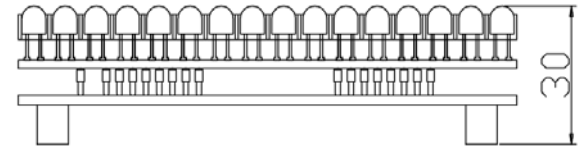
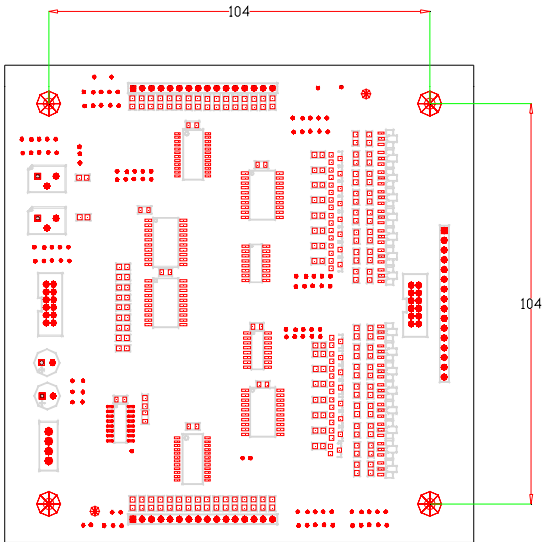
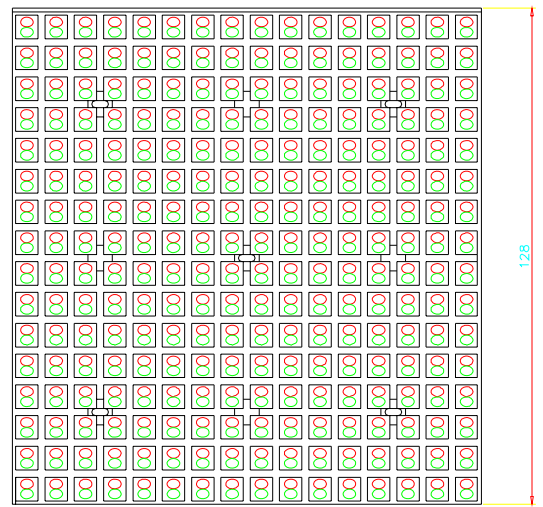
7.TIMMING CHART



◆ OPERATION TIMING

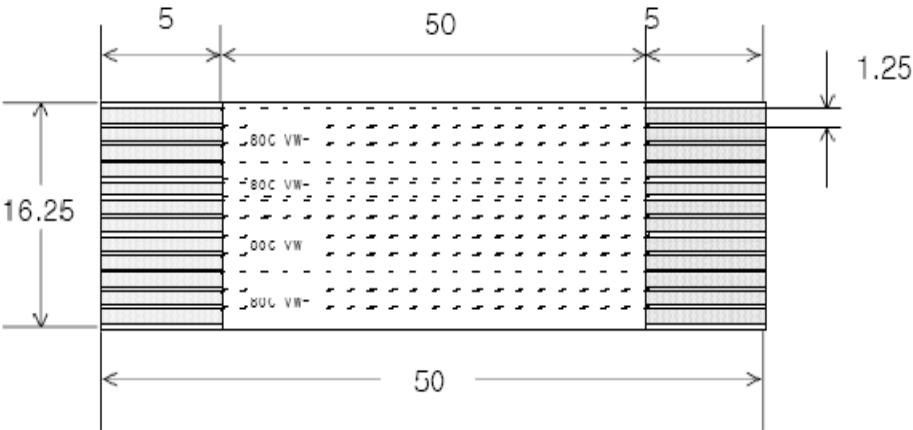
ITEM	SYMBOL	MIN	TYP	MAX	UNIT
CLOCK CYCLE	T	—	—	20	MHz
DATA SETUP TIME	T _{su}	20	—	—	ns
DATA HOLD TIME	T _h	25	—	—	ns
LATCH PULSE WIDTH	T _{pw}	60	—	—	ns
CLOCK-LATCH TIME	T _{ck}	50	—	—	ns
ENABLE-LATCH TIME	T _{el}	100	—	—	ns
ADDRESS-ENABLE TIME	T _{ae}	20	—	—	ns
LATCH-ADDRESS TIME	T _{la}	20	—	—	ns

8. DIMENSION



9. CONNECTION

9-1. DATA CABLE



9-2. POWER CABLE



ITEM	VENDOR	MODEL NO.	SPECIFICATION	HOUSING MODEL NO.
DATA CABLE				
POWER CABLE				