

The One Bul. 1045-4 YongTong-Dong

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SPECIFICATION

MODEL NO:HS-128-CRGAN

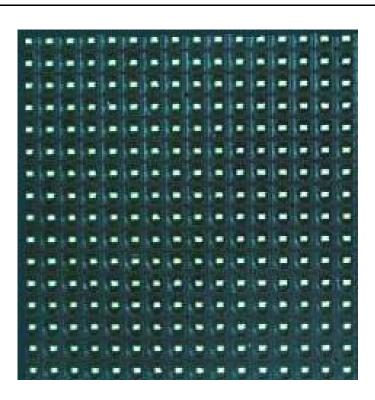
APPLICATION AREA	IN DOOR
LED TYPE	CHIP LED
COLOR	RED, GREEN COLOR
ISSUED DATE	2007. 09. 30
REVISION DATE	2008. 01. 15

	ISSUE DEPT.		SI	3U	QI	RA
ISSUE	REVIEW	APPR'L	REVIEW APPR'L		REVIEW	APPR'L

[CUSTOMER APPROVAL]

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1.PHOTOGRAPH



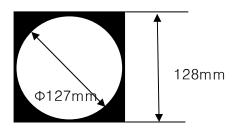
2.FEATURES

ITEM	DESCRIPTION
DISPLAY SIZE(W×H×D)	128 × 128 × 10.3(mm)
DOT PITCH	8mm
DISPLAY COLOR	(RED, GREEN)
DUTY RATE	1/16 DUTY
DOT MATRIX	256(16 × 16)
WEIGHT	130g
VIEWING ANGLE	120Deg.

3.OPTICAL CHARACTERISTICS

IT	EM	SIMBOL	MIN	TYP	MAX	UNIT
	RED	IVr		240		
BRIGHTNESS	GREEN	IV_g		180		cd/m ²
	AMBER	IV_b		400		
LMICCON.	RED	λp _r		630		
EMISSON WAVELENGTH	GREEN	λp_{g}		572		nm
VVAVELENGIII		λp _b		_		

■TEST AREA



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4.ELECTRICAL CHARACTERISTICS

 $T_a = 5^{\circ}C$

ITEM		MIN	TYP	MAX	UNIT
DC SUPPLY VOLTAGE	CIRCUIT		5.0	5.5	V
DC SUPPLY VOLTAGE	LED		5.0	5.5	V
DC INPUT VOLTAGE	CIRCUIT	Vcc-0.3	Vcc	Vcc+0.3	V
DC INFOT VOLTAGE	LED				V
CURRENT CONSUMPTION	CIRCUIT		0.3		А
CORRENT CONSUMETION	LED		3.0		А
TEMPERATURE	OPERATING	-25		+45	${\mathbb C}$
I LIVIF LHAT ONL	STORAGE	-25		+85	${\mathbb C}$
ואוסווד ו בעבו	LOW			8.0	V
INPUT LEVEL	HIGH	2.4			V
CLOCK FREQUENC	CY		15.0		MHz

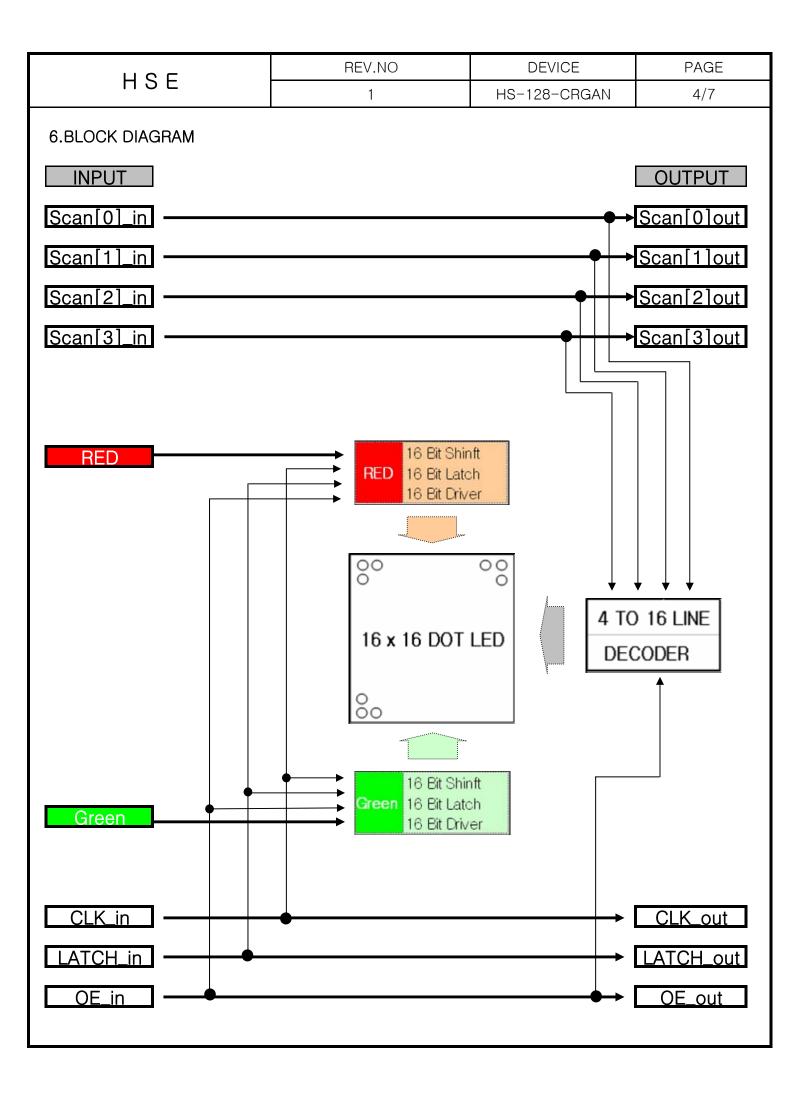
5.FUNCTION

5-1. SIGNAL FUCTION

PIN NO	NAME	FUNCTION DESCRIPTION	FEATURE
1	OE	Out Enable	
2	LATCH	Data Strobe	
3	GND	Signal Ground	1 🗔 a
4	CLK	Data Shift	H ■ L ²
5	GND	Signal Ground	
6	GD	Data Input_Green Color	9 ■ 6
7	GND	Signal Ground	l ∃∎⊨ I
8	RD	Data Input_Red Color	
9	SC0	Data Line Address Scan0	1
10	SC1	Data Line Address Scan1	12
11	SC2	Data Line Address Scan2	
12	SC3	Data Line Address Scan3	

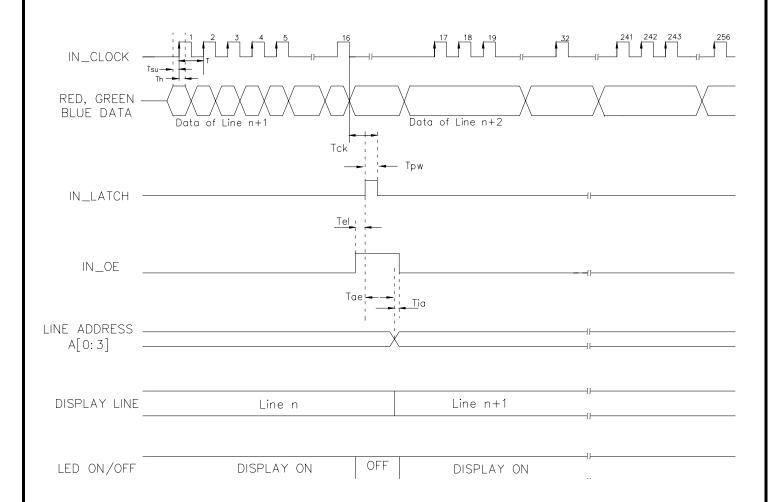
5-2. POWER FUCTION

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



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7.TIMMING CHART

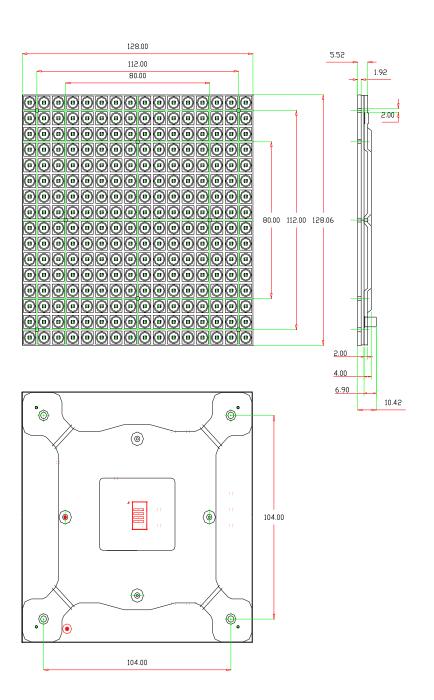


♦ OPERATION TIMING

ITEM	SYMBOL	MIN	TYP	MAX	UINT
CLOCK CYCLE	Т	ı	-	20	MHz
DATA SETUP TIME	Tsu	20	-	_	ns
DATA HOLD TIME	Th	25	-	_	ns
LATCH PULSE WIDTH	Tpw	60	-	_	ns
CLOCK-LATCH TIME	Tck	50	-	_	ns
ENABLE-LATCH TIME	Tel	100	-	_	ns
ADDRESS-ENABLE TIME	Tae	20	_	_	ns
LATCH-ADDRESS TIME	Tla	20	_	_	ns

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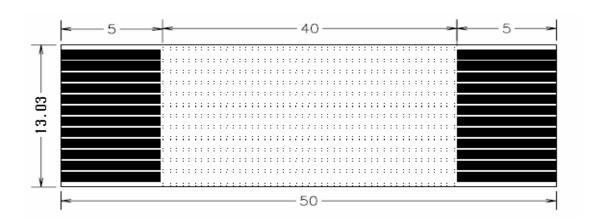
8. DIMENSION



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9. CONNECTION

9-1. DATA CABLE



9-2. POWER CABLE



ITEM	VENDOR	MODEL NO.	SPECIFICATION	HOUSING MODEL NO.
DATA CABLE			12PIN,1 MM PITCH	
POWER CABLE		B4B-PH -SM3-TB	4 PIN, 2 mm PITCH	PHR-4-200R