

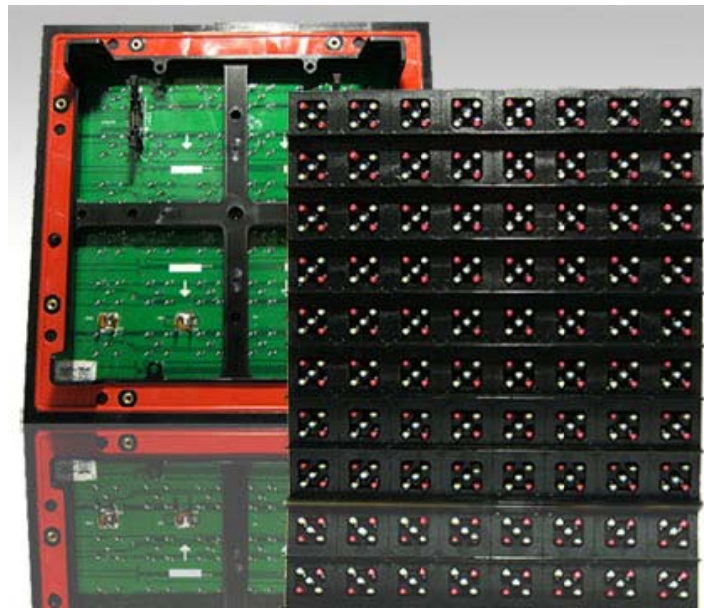


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# LED MODULE

## OUTDOOR 8X8 P32mm.



ITEM	DESIGNED	INSPECTOR	APPROVED
SIGNATURE	<i>A. Ward</i>	<i>[Signature]</i>	<i>[Signature]</i>
DATE	2008/12/23	2008/12/23	2008/12/23

1.LED MODULE NAME : OUTDOOR 8X8 P32mm.

2.FEATURES

ITEM		DESCRIPTION
DISPLAY COLOR		Full Color(Red+Green+Blue)
WEIGHT		1000(g)
DRIVE MODE		LATCH
APPLICATION		OUTDOOR
STRUCTURE	SIZE(WxHxD)	255x255x53(mm)
	DOT PITCH	32 (mm)
	NUMBER OF DOTS	320 (8x8)DOTs
	LED PER DOT	Red(2)+Green(2)+Blue

3.ABSOLUTE MAXIMUM RATINGS


ITEM	SYMBOL	VALUE	UNIT	REMARK
OPERATING TEMPERATURE	$T_{op}$	-40 ~ 60	°C	
STORAGE TEMPERATURE	$T_{stg}$	-40 ~ 80	°C	
SUPPLY VOLTAGE	$V_{cc}$	0 ~ +5.5	V	
SIGNAL INPUT VOLTAGELEVEL	$V_{iH}, V_{iL}$	-0.3 ~ $V_{cc}+0.3$	V	

4.RECOMMENDED OPERATING CONDITIONS

ITEM		SYMBOL	MIN.	TYP.	MAX.	UNIT	REMARK
SUPPLY VOLTAGE	LED & LOGIC CIRCUIT	$V_{cc}$	4.75	5	5.25	V	
SIGNAL INPUT VOLTAGE LEVEL		$V_{iH}$	$0.7 \times V_{cc}$	-	$V_{cc}$		
		$V_{iL}$	0	-	$0.3 \times V_{cc}$		
OPERATING TEMPERATURE		$T_{op}$	0 ~ 60			°C	

5. ELECTRICAL CHARACTERISTICS (AT Ta = 25°C)

ITEM	SYMBOL	VALUE	UNIT	REMARK
CLOCK FREQUENCY	F	15	MHz	
CURRENT CONSUMPTION PER MODULE	$I_{cc}$	1.8	A	ALL ON

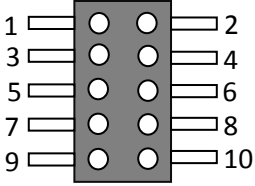
	LED MODULE	REV.NO	DATE	PAGE
	OUTDOOR P32mm.	0	2008.12.23	1/5

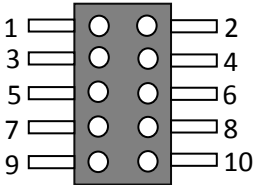
## 6. OPTICAL CHARACTERISTICS (AT Ta = 25°C)

ITEM		SYMBOL	MIN.	TYP.	MAX.	UNIT	REMARK
BRIGHTNESS	RED	$L_v$	-	1450	-	$cd/m^2$	
	GREEN		-	1100	-		
	BLUE		-	1500	-		
	WHITE		-	4000	-		
WAVELENGTH	RED	$\lambda_p$		624		nm	
	GREEN			515			
	BLUE			470			
VIEWING ANGLE	HOR.	Angle		95		deg(°)	50% Brightness
	VER.			45			

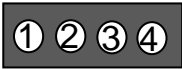
## 7. SIGNAL FUNCTION

### 1) DATA SIGNAL CONNECTOR

Pin Map (IN)	Pin Number	Pin Name	Function Description
	1	Red	Data Input Red Color
	2	Green	Data Input Green Color
	3	Blue	Data Input Blue Color
	4,6	GND	Ground of the Module
	5	OE	Brightness Control
	7	Latch	Data Strobe
	8,10	VCC	Pin for Supply Voltage Next Module
	9	Clock	Shift Clock for Input Data

Pin Map (OUT)	Pin Number	Pin Name	Function Description
	1	Red_Out	Data Output Red Color
	2	Green_Out	Data Output Green Color
	3	Blue_Out	Data Output Blue Color
	4,6	GND	Ground of the Module
	5	OE_Out	Brightness Control
	7	Latch_Out	Data Strobe
	8,10	No Name	Do Not Application
	9	Clock_Out	Shift Clock for Input Data

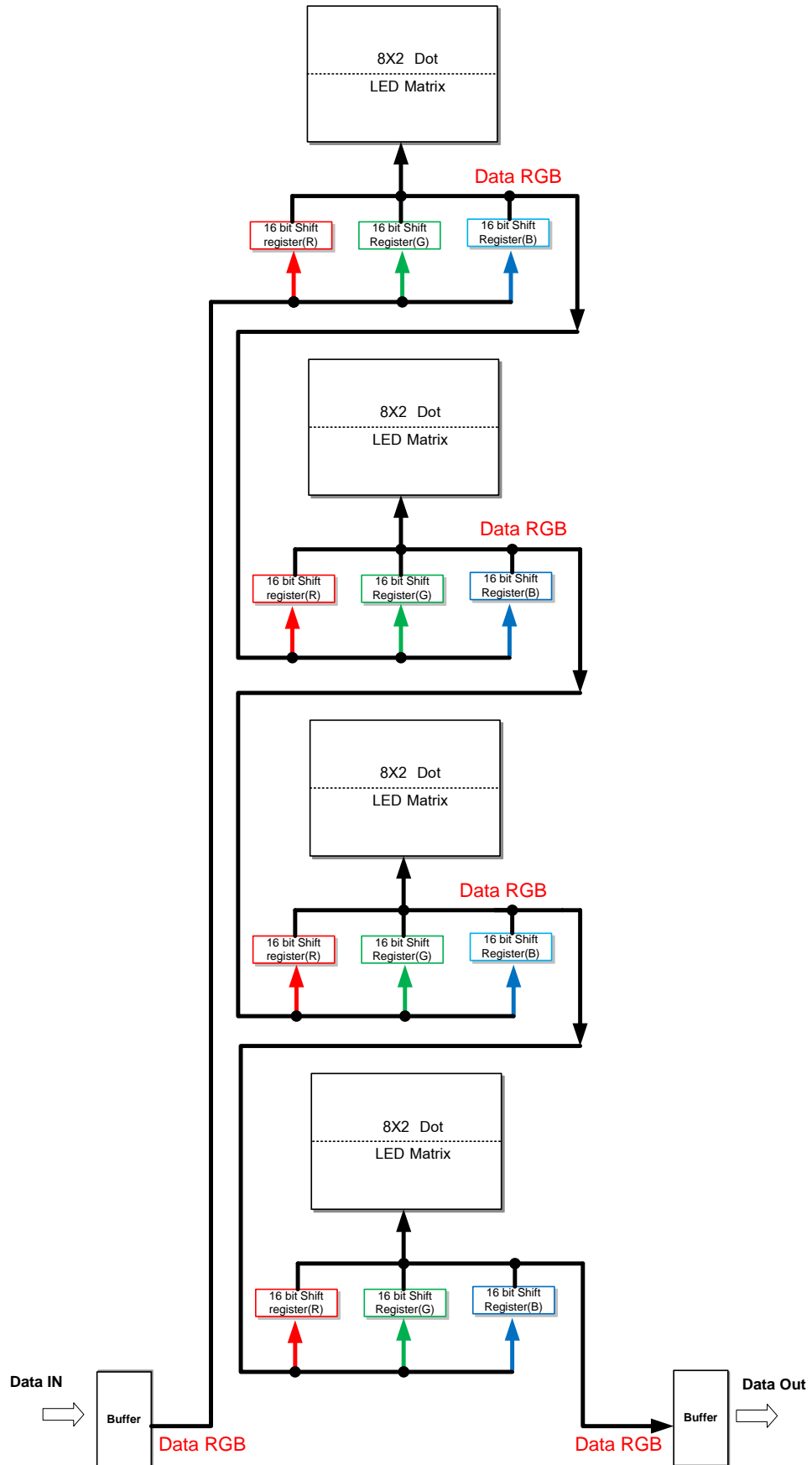
## 2) POWER CONNECTOR


Pin Map (Power)	Pin Number	Pin Name	Function Description
	1	+5V	Supply Voltage for LED& Module
	2	GND	Ground of Module
	3	+5V	Supply Voltage for LED& Module
	4	GND	Ground of Module

## 3) CONNECTOR SPECIFICATION

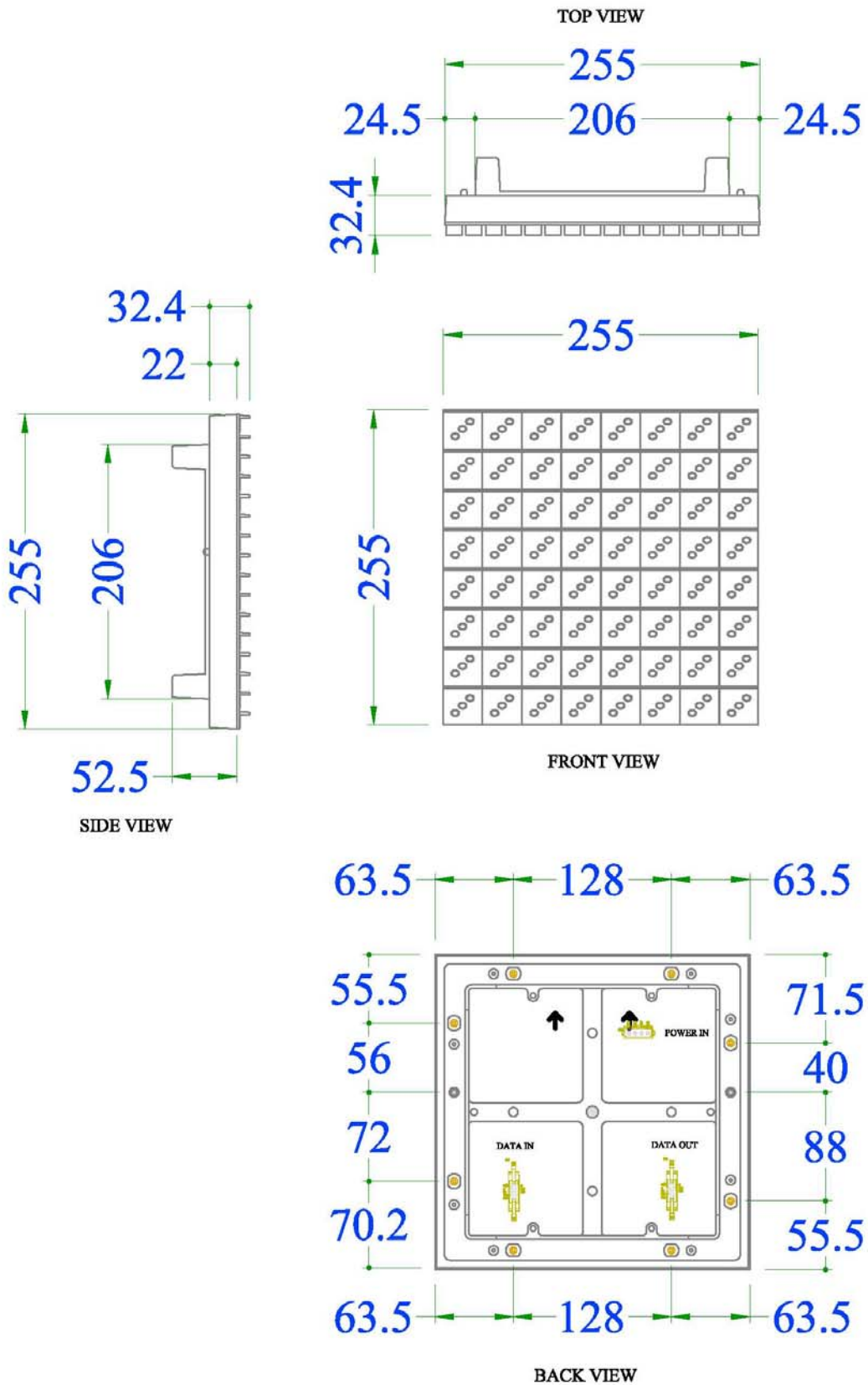
ITEM	VENDOR	MODUL NO.	SPECIFICATION	HOUSING MODEL NO.
DATA CON	GTK	SCP10GS11	10Pin P2.54mm.	SC10TA11
POWER CON	GTK	111404ST	4Pin P5.08mm.	-


## 8. BLOCK DIAGRAM



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# 11. DIMENSION



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