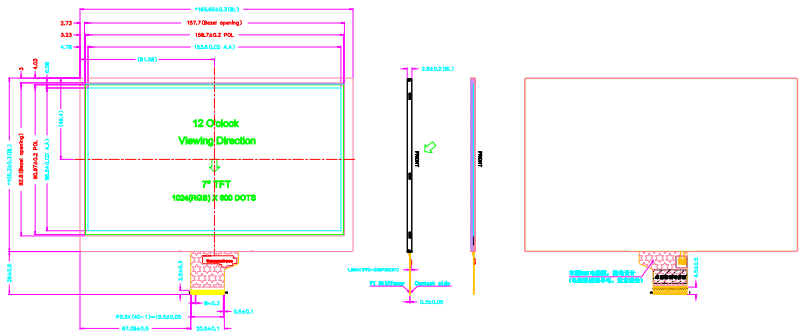
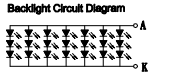
Mechanical Part



Backlight Circuit Diagram



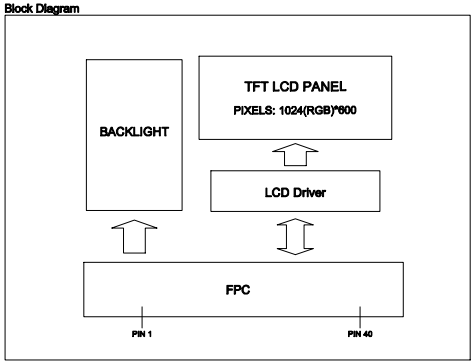
WHITE LED (7 branches x 3pcs)
Constant Current Driving, If=140mA
Vf=9.0V(typ.)/10.5V(max.) @If=140mA

Notes:
1.Tolerance is ±0.3mm unless otherwise noted.
2.Marked with * is important dimension.
3.Marked with ( ) is reference dimension.

CUSTOMER APPROVAL:
This drawing contains confidential information and is the property of GOWORLD, without whose permission it may not be copied, shown or handed to a third party or otherwise used.

SHANTOU GOWORLD DISPLAY CO., LTD.	DRAWN:	CHECKED:	APPROVED:	LCM NO: GWMTF15924-LCM/E	Rev: 00	UNITS: mm
Tel:0754-88192283 Fax:0754-86339619	余冰洁 2020.10.22	陈秀丹 2020.10.22	黄宏生 2020.10.22	DWG NO: ED-15924-LCM/E	SHEET 0F 2	

Block Diagram



LCD Interface Pin Description:

PIN	Symbol	I/O	Function Description
1	VCOM	-	Common voltage from Host (No connection with list)
2	DVDD	P	Digital power supply
3	DVDD	P	Digital power supply
4	NC	-	No connection
5	RESET	I	Global reset pin. Active low to enter reset state
6	STBYB	I	Standby mode control. STBYB=H, enter standby
7	GND	G	Ground
8	RXIN0-	I	Negative LVDS differential data inputs
9	RXIN0+	I	Positive LVDS differential data inputs
10	GND	G	Ground
11	RXIN1-	I	Negative LVDS differential data inputs
12	RXIN1+	I	Positive LVDS differential data inputs
13	GND	G	Ground
14	RXIN2-	I	Negative LVDS differential data inputs
15	RXIN2+	I	Positive LVDS differential data inputs
16	GND	G	Ground
17	RXCLKIN-	I	Negative LVDS differential clock inputs
18	RXCLKIN+	I	Positive LVDS differential clock inputs
19	GND	G	Ground
20	RXIN3-	I	Negative LVDS differential data inputs
21	RXIN3+	I	Positive LVDS differential data inputs
22	GND	G	Ground
23	NC	-	No connection
24	ID	-	No connection
25	GND	G	Ground
26	DIMI	I	Brightness control signal (Normally pull High)
27	DIMO	O	Backlight CABC controller signal
28	SELB	I	6/8 bit mode select (HIGH 6h, L= 8bit, H=6bit)
29	AVDD	P	Power for analog
30	GND	G	Ground
31	LED(-)	P	LED Cathode
32	LED(-)	P	LED Cathode
33	L/R	I	Horizontal Inversion
34	U/D	I	Vertical Inversion
35	VGL	P	Gate OFF Voltage
36	CABCEN1	I	CABC HW enable
37	CABCEN0	I	CABC HW enable
38	VGH	P	Gate ON Voltage
39	LED(+)	P	LED Anode
40	LED(+)	P	LED Anode

DISPLAY TYPE: a-Si TFT(TN mode) / 16.7M Colors
DISPLAY MODE: Transmissive / Normally White
VIEWING DIRECTION: 12 O'clock (Best for eye watching)
LCD IC: (Source) HX8282-A, (Gate) HX8696
LCD SUPPLY INPUT(TYP. VALUE):
DVDD=3.3V, AVDD=+11V,
VCOM=3.76V, VGH= +20V, VGL= -7.5V
LCD INTERFACE : LVDS Interface (VESA mode 6/8 bit)
BACKLIGHT: White LED (3 pcs in series, 7 branches)
LCM LUMINANCE: 280cd/m2 (min. @ If=140mA)
OPERATING TEMPRATURE: -20°C ~ +60°C
STORAGE TEMPRATURE: -30°C ~ +70°C

NOTE:
WITH ' ' PLEASE CHECK

Revision History:

E00	Edit: Change IC to HX8282-A + HX8696	-21.05.05
D00	Edit: Change source IC from "ILI9105C3" to "ILI9105C" (Internal gamma update)	-20.10.22
C00	Edit: 规格书更改第 1 到第 [illegible] (NEW:GWMTF15924_LCM_C00)	-19.04.29
A00	Add: Original Edition (NEW:GWMTF15924_LCM_A00)	-18.01.02

CUSTOMER APPROVAL:
This drawing contains confidential information and is the property of GOWORLD, without whose permission it may not be copied, shown or handed to a third party or otherwise used.

SHANTOU GOWORLD DISPLAY CO., LTD.	DRAWN:	CHECKED:	APPROVED:	LCM NO: GWMTF15924-LCM/E	Rev: 00	UNITS: mm
Tel:0754-88192283 Fax:0754-86339619	魏全宽 2020.10.22	黄宏生 2020.10.22	黄宏生 2020.10.22	DWG NO: ED-15924-LCM/E	SHEET 0F 2	