

E-Paper Display Kit



BRIEF SPECIFICATION

Fdt Tech Module No. : EP031GYM70-FDR

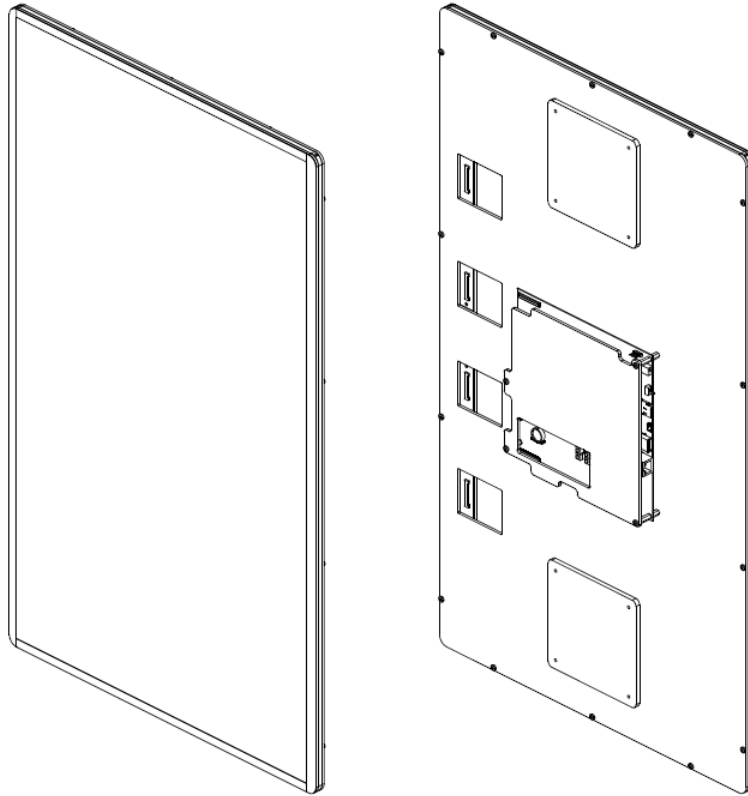
Description: 31.2" E-paper

SPEC No.: SAS-1806003

Version: 0.0

Issue Date: June 21, 2018

※ This approval sheet contains 7 pages including the cover and appendix.



● General Descriptions

Features

- High contrast reflective / electrophoretic technology
- 2560 x 1440 display
- Ultra wide viewing angle
- Ultra low power consumption
- Pure reflective mode
- Bi-stable
- Commercial temperature range
- Landscape, Portrait mode
- Signal Operation Voltage +12V
- Built-in WiFi
- Slideshow Update via Micro SD/ Built-in eMMC

Applications

- IoT Devices
- Health and Fitness Displays
- Educations
- Wireless devices
- Signage

Application Precautions

Do not use the products herein for the following equipment which demands extremely high performance in terms of functionality, reliability, or accuracy.

- Aerospace equipment
- Communication equipment for trunk lines.
- Control equipment for the nuclear power industry.
- Medical equipment related to life support, etc.

The other application that demands high reliability and functionality should first contact a sales representative.

● E-Paper Specifications

Parameter	Specifications	Unit	Remark
Screen Size	31.2(diagonal)	inch	
Display Format	2560 (H) x 1440 (V)	dot	
Active Area	691.2 (H) x 388.8 (V)	mm	
Pixel Pitch	0.27 (H) x 0.27 (V)	mm	
Pixel Configuration	Square		
Outline Dimension	697.2(W) x 402.8(H) x 0.805(D)	mm	
Weight	494	g	
Number of Gray	16 Gray Level (monochrome)		
Display Operating Mode	Reflective Mode		
Glass Substrate	0.5		
Surface Treatment	Hard Coating		
FPL	E INK Pearl		

● Specifications

Parameter		Remark
CPU	NXP I.MX7 Dual Core ARM Cortex A7 @1GHz + M4	
RAM	Two Micron LPDDR3 (256Mb*16)	
eMMC Flash	8GB Flash	
Display Interface	4x EPDC Connector	
Network Interface	WiFi IEEE 802.11 b/g/n Ethernet RJ45 10/100/1000M	
OS Supported	Linux kernel 3.14.52	
Storage	Micro SD Card	
USB Port 1	Micro USB	For display pattern update
USB Port 2	Type A	
Battery (RTC)	Built-in (CR1220)	

Power Requirement		Remark
Power Input (DC Jack 2.5 ϕ)	12vdc	
Power Consumption @+12V	3.96Watts (eMMC mode)	

Environment		Remark
Operating	0~+40°C	
Storage	-25~+70°C	
High Temperature & High Humidity (Non-condensing)	+40°C / 90%	

● Order Information

Parameter	EP031GYM70-FDR	Unit	Remark
Micro SD Card	◎		
USB Type A	◎		
Micro USB	◎		For display pattern update
WiFi	◎		
Ethernet RJ45	◎		
Micro SD Card	◎		
Battery (RTC)	Built-in (CR1220)		
Bracket	PMMA		
FFC Cable	4PCS		50P Pitch:0.5mm L:200mm
Condition	Standard		

● Recommended Operating Conditions

Parameter	Symbol	Min	Typ	Max	Unit	Note	Remark
Input Voltage	Vcc	-	+12	-	V		
Total Current (eMMC Mode)	Icc (+12V)	-	330	-	mA		±15%
Power Consumption	-	-	3.96	-	W		
Total Current (SD Card Mode)	Icc (+12V)	-	1140	-	mA		±15%
Power Consumption	-	-	13.68	-	W		

- *Accessories (Option)*



A. LASTD1250P-FDR



B. LAACD18000-FDR



C. LALA312001-FDR

A. AC to DC Adapter (L:1500mm, 100-240V_{AC} 50-60Hz to +12V_{DC} @ 5A, ϕ 2.5)

B. Power Cord (L:1800mm, Plug Type B for USA)

C. Aluminum Hand Case (784*490*35/80mm)

● Dimension Information

