



FLAT DISPLAY TECHNOLOGY CORPORATION



This product is RoHS compliant



PK56VxxxRx-00R

Specification

2014-08-25 Version 0.5



ETPP

Embedded Touch Panel Platform

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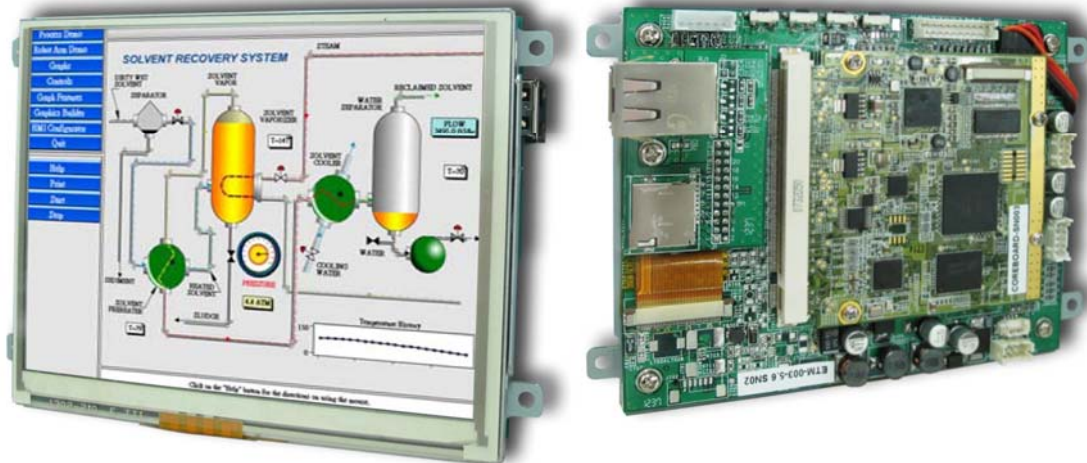


證書號碼: 030450



證書號碼: 87002534





Features

■ System

- ARM Cortex-A8 @ 600MHz
- 256 MB LPDDR DRAM / 256 MB NAND Flash
- 512 MB LPDDR DRAM / 512 MB NAND Flash
- Android 4.0 / Android 2.2 WEC7 / WinCE 6.0

■ Display

- 5.6"(4:3) Color TFT-LCD Panel
- 4 Wires Resistive Touch Screen

■ Various Industrial Serial ports

- RS232 / RS485 / RS422

■ GPIO and Special IO

- General purpose I/O x 9
- I²C (100K/400kHz) x 1
- SPI x 2
- PWM x 1
- ADC (10-Bits) x1

■ USB

- USB 2.0 x 1

■ Scan Key

- 3 x 3 Matrix keys x 1 (Option)

■ LAN

- Ethernet RJ-45 (10/100Mbps)
- Wi-Fi IEEE 802.11 b/g/n (Option)
- PoE (Option)

■ Storage

- SD socket x 1 (Option)
- Micro SD x 1

■ Starter Kit

- Simply setting
- Quick Start
- Easy Learning

■ Free APPs source code

- Free C# APPs source code for WEC7 / WinCE 6.0
- Free JAVA APPs source code for Android
- Various APPs for special I/O





Specifications

System	
Processor	ARM Cortex-A8 @600MHz
System Memory	256 MB LPDDR DRAM / 256MB NAND Flash 512MB LPDDR DRAM , 512MB NAND Flash
2D/3D Graphics Accelerator	Power VR SGX 530
OS Support	Android 4.0 / Android 2.2 WEC7 / WinCE 6.0
COM1	RS232 (Option: UART/RS458/RS422)
COM2	RS232 (Option: UART)
USB OTG /HOST	USB2.0 HOST x 1 (OTG x 1 Option)
Ethernet /WLAN	RJ45 Port as 10/100Mbps (PoE Option)
Memory Card	TF (Micro SD) / SD (Option)
Buzzer	85dB
Battery for RTC	CR1220
Wi-Fi	Wi-Fi IEEE 802.11 b/g/n (Option)
Scan Key	Max 3 x 3 (Option)
Function Key	Option
Audio	Earphone/MIC (Option) (Note)
GPIO	GPIO x 9, I ² C x 1, SPI x 2, PWM x 1, ADC x 1

LCD	
Panel Size	5.6"
Resolution (Pixels)	640x480
Color	262K colors (18 bits)
Luminance / (with TP)	350/280 cd/m ²
View Angle	50/70/70/70
Backlight Lifetime (LED)	20K (Min)
Touch Screen	
Resistive Type	4 Wires
Projected Capacitance Touch	-
Power Requirement	
Power Input	+9~+36V _{DC} (PoE Option)
Power Consumption@+12V	4.98 Watts±15%
Environment	
Operating Temp.	-10~60°C
Storage Temp.	-20~70°C

Note: Must use condenser microphone only.





Order Information

Parameter	PK56VA00R1-00R	PK56VW00R1-00R	PK56VA2AR2-00R	PK56VW2AR2-00R
OS	Android 2.2	WEC7 / WinCE6.0	Android 2.2	WEC7 / WinCE 6.0
Memory	256MB	256MB	256MB	256MB
Touch Panel Type	4W Resistive	4W Resistive	4W Resistive	4W Resistive
COM1&COM2 Port	RS232 x 2	RS232 x 2	RS232 x 2	RS232 x 2
USB HOST A-type	⊙	⊙	⊙	⊙
TF (Micro SD) Socket	-	-	⊙	⊙
Ethernet (10/100Mbps)	-	-	⊙	⊙
GPIO (SPI/I2C/PWM/ADC)	⊙	⊙	⊙	⊙
RTC Li-ion Battery (CR1220-3V)	⊙	⊙	⊙	⊙
Buzzer	⊙	⊙	⊙	⊙
Function Key (On Board)	⊙	⊙	⊙	⊙
Scan Key	-	-	Option	Option
Earphone / MIC	-	-	Option	Option
WiFi	-	-	Option	Option
Dimension (WxHxD)	142 x 101 x 23.25 mm	142 x 101 x 23.25 mm	142 x 101 x 36.71 mm	142 x 101 x 36.71 mm
Weight	320 g ± 10%	320 g ± 10%	335g ± 10%	335g ± 10%

Parameter	PK56V42AR2-00R
OS	Android 4.0
Memory	512MB
Touch Panel Type	4W Resistive
COM1&COM2 Port	RS232 x 2
USB HOST A-type	⊙
TF (Micro SD) Socket	⊙
Ethernet (10/100Mbps)	⊙
GPIO (SPI/I2C/PWM/ADC)	⊙
RTC Li-ion Battery (CR1220-3V)	⊙
Buzzer	⊙
Function Key (On Board)	⊙
Scan Key	Option
Earphone / MIC	Option
WiFi	Option
Dimension (WxHxD)	142 x 101 x 36.71 mm
Weight	335g ± 10%

Note : 1. The assembling of panel and bracket is aimed for delivery, packaging and experient. If the demand of shockproof and longterm fix, pls have it into consideration of mechanism design.

2. Scan Key Board 、Audio Board 、WiFi module are optional accessories in PK56VA2AR2-00R 、PK56VW2AR2-00R and PK56V42AR2-00R.

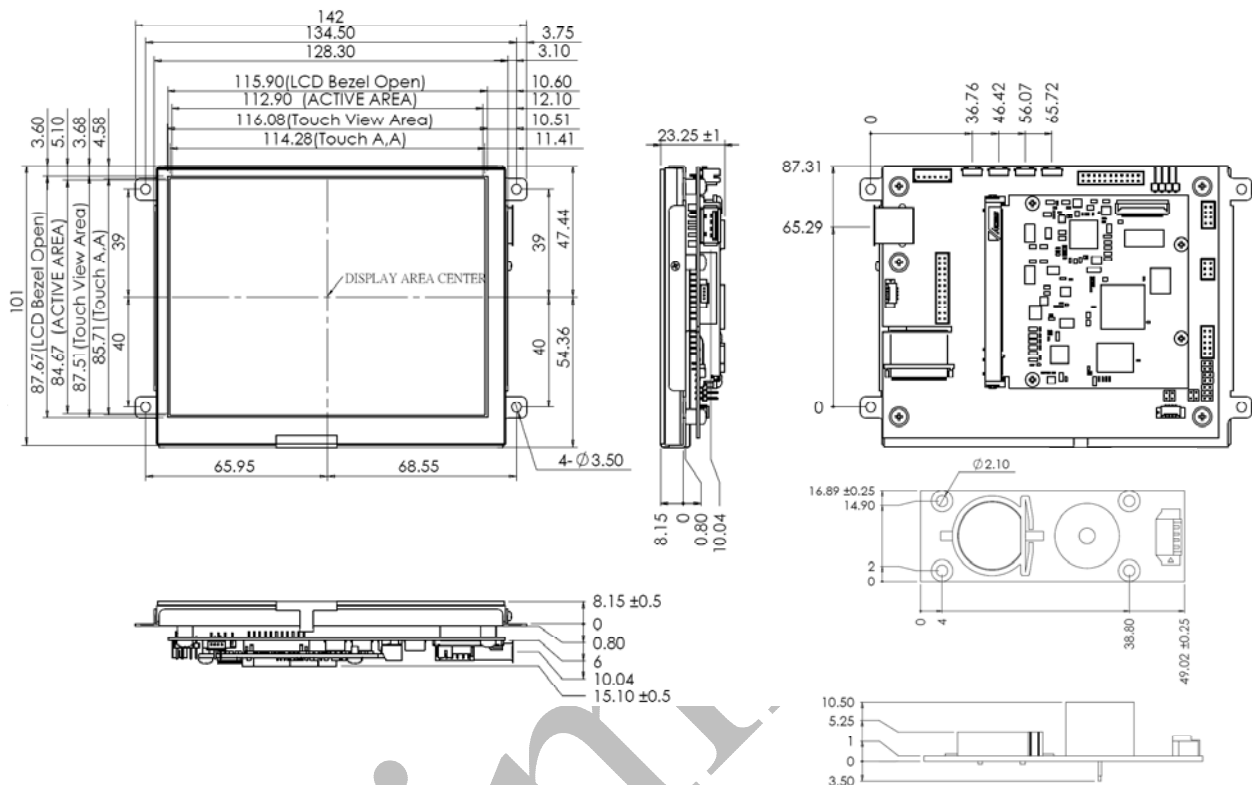


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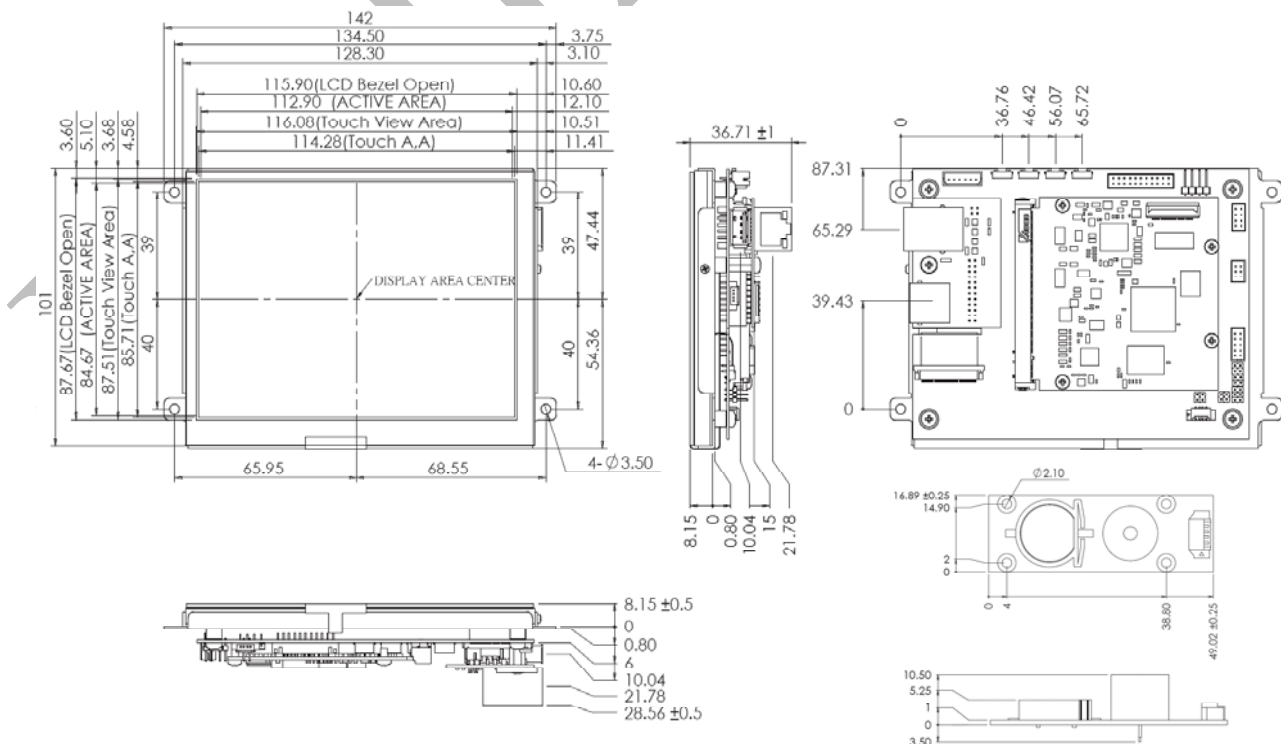


Dimension

PK56Vx00R1-00R

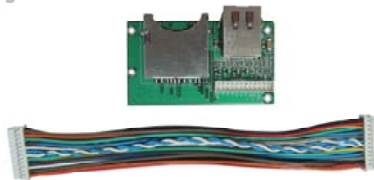
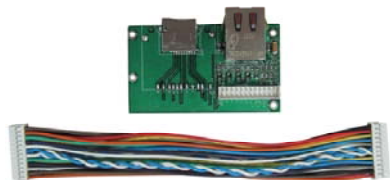
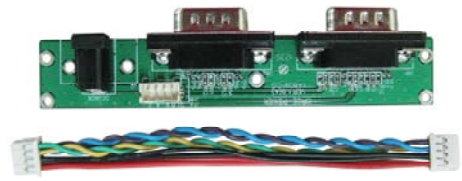
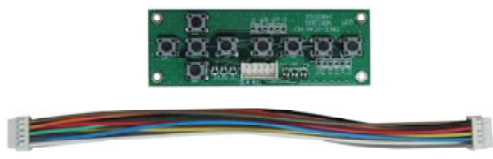


PK56Vx2AR2-00R

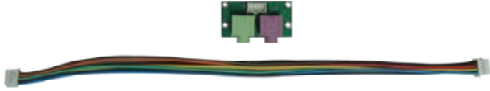




Accessories (Option)

NO.	Item	Order P/N	Picture
1	USB A-TYPE Board	LOUSBA0001-FDR With 6-6P (2.0mm Cable)	
2	Mini USB Board	LOUSBMNI01-FDR With 6-6P (2.0mm Cable)	
3	SD&LAN Board	LOSDLAN000-FDR With 24-24P (2.0mm Cable)	
4	TF (Micro SD) & LAN Board	LOTFLAN000-FDR With 24-24P (2.0mm Cable)	
5	Power & COM Board	LOPOWER007-FDR With 8-8P (2.0mm Cable)	
6	Scan Key Board	LK09K00001-FDR With 10-10P (2.0mm Cable)	



NO.	Item	Order P/N	Picture
7	Audio Board (Mic-in & Line out)	LOAUDIO003-FDR With 8-8P (2.0mm Cable)	
8	Wi-Fi	LOWIFI0001-FDR With 6-6P (2.0mm Cable)	
9	3A DC 12V Adapter	LASTD12030-FDR Match LAACD18000-FDR	
10	Power Cord Plug Type B for USA (D Type)	LAACD18000-FDR	