



FLAT DISPLAY TECHNOLOGY CORPORATION



This product is RoHS compliant



# PK70W~~x~~1AR2-00R

## Specification

2013.09.05 Version 0.1



# ETPP

## Embedded Touch Panel Platform

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證書號碼 | 030450

證書號碼 | 87E02534



## 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

- 7"(16:9) Color TFT-LCD Panel
- Projected Capacitance Touch

### ■ Various Industrial Serial ports

- RS232 / RS485 / RS422

### ■ GPIO and Special IO

- General purpose I/O x 9
- I<sup>2</sup>C (100K/400kHz) x 1
- SPI x 2
- PWM x 1
- ADC (10-Bits) x 1

### ■ USB

- USB 2.0 x 1

### ■ LAN

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

### ■ Storage

- SD socket x1
- Micro SD x1 (Option)

### ■ 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

### ■ Scan Key

- 3 x 3 Matrix keys x 1 (Option)





# Specifications

System	
Processor	ARM Cortex-A8 @600MHz
System Memory	256MB 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/RS485/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	SD / Option: TF (Micro SD)
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) <small>(Note)</small>
GPIO	GPIO x9, I <sup>2</sup> C x 1, SPI x 2, PWM x 1, ADC x 1

Note: Must use condenser microphone only

LCD	
Panel Size	7"
Resolution (Pixels)	800x480
Color	1,677K colors (24 bits)
Luminance / (with TP)	400/320 cd/m <sup>2</sup>
View Angle	50/70/70/70
Backlight Lifetime (LED)	20K (Min)
Touch Screen	
Touch Panel Type	Projected Capacitance Touch
Power Requirement	
Power Input	+9~+36V <sub>DC</sub> (PoE Option)
Power Consumption@+12V	4.5 Watts ± 15%
Environment	
Operating Temp.	-10~60°C
Storage Temp.	-20~70°C





# Order Information

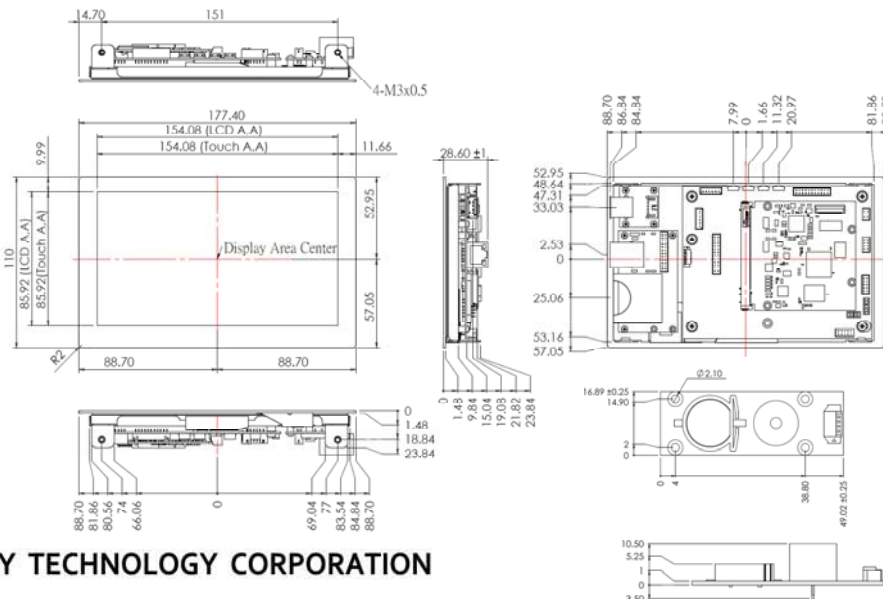
Parameter	PK70WZ1AR2-00R	PK70WY1AR2-00R	PK70WX1AR2-00R
OS	WEC7 / WinCE 6.0	Android 2.2	Android 4.0
Memory	256MB	256MB	512MB
Touch Panel Type	Projected Capacitance Touch (1 Touch Point)	Projected Capacitance Touch (5 Touch Points)	Projected Capacitance Touch (5 Touch Points)
COM1&COM2 Port	RS232 x 2	RS232 x 2	RS232 x 2
USB HOST A-type	⊙	⊙	⊙
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	Option
Earphone / MIC	Option	Option	Option
WiFi	Option	Option	Option
Dimension (WxHxD)	177.4 x 110 x 28.6 mm	177.4 x 110 x 28.6 mm	177.4 x 110 x 28.6 mm
Weight	416g ± 10%	416g ± 10%	416g ± 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.

## Dimension

### PK70W<sub>x</sub>1AR2-00R





## 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	1.67A DC 24V Adapter	LASTD24167-FDR Match LAACD18000-FDR	
11	Power Cord Plug Type B for USA (D Type )	LAACD18000-FDR	

