SOME IMPORTANT NOTES

FCC NOTES

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.
This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

CE CLASS A WARNING

This equipment is compliant with Class A of CISPR 32. In a residential environment this equipment may cause radio interference.

AVERTISSEMENT CE CLASSE A

Cet équipement est conforme à la classe A de CISPR 32. Dans un environnement résidentiel, cet équipement peut provoquer des interférences radio.

WARRANTY LIMITS

Warranty will terminate automatically when the machine is opened by any person other than the authorized technicians. The user should consult his/her dealer for the problem happening. Warranty voids if the user does not follow the instructions in application of this merchandise. The manufacturer is by no means responsible for any damage or hazard caused by improper application. Please note that all of EK series kiosk are NOT designed to work direct sunshine both indoors and outdoors.

LIMITES DE GARANTIE

La garantie prend fin automatiquement lorsque la machine est ouverte par une personne autre que les techniciens autorisés. L'utilisateur doit consulter son revendeur pour le problème qui se produit. La garantie s'annule si l'utilisateur ne suit pas les instructions d'application de cette marchandise. Le fabricant n'est en aucun cas responsable de tout dommage ou danger causé par une mauvaise application. Veuillez noter que tous les

kiosques de la série EK ne sont PAS conçus pour fonctionner sous un ensoleillement direct à l'intérieur et à l'extérieur.

警告使用者

為避免電磁干擾，本產品不應安裝或使用於住宅環境。

SAFETY INSTRUCTIONS

This equipment is not suitable for use in locations where children are likely to be present. Never open the equipment. For safety reasons, the equipment should be opened only by qualified skilled person. The power outlet socket must be located near the equipment and must be easily accessible.

CONSIGNES DE SÉ CURITÉ

Cet équipement ne convient pas à une utilisation dans des endroits où des enfants sont susceptibles d'être présents. N'ouvrez jamais l'équipement. Pour des raisons de sécurité, l'équipement ne doit être ouvert que par une personne qualifiée et qualifiée. La prise de courant doit être située à proximité de l'équipement et doit être facilement accessible.

BATTERY WARNING

Risk of explosion if battery is replaced by an incorrect type. Dispose of expended battery in accordance with local disposal regulations.

AVERTISSEMENT DE BATTERIE

Risque d'explosion si la batterie est remplacée par un type incorrect. Jetez la batterie usagée conformément aux réglementations locales en matière d'élimination.

警告

本電池如果更換不正確會有爆炸的危險，請依製造商說明書處理用過之電池。

Revision History

Date	Version	Description
2020/04/21	A0	For Preliminary Release
2021/01/05	B0	Add EK-15xx model
2021/09/27	C0	Add EK-24xx model
2022/06/13	D0	Add EK-15x2/16x2/21x2/24x2 model
2024/03/21	E0	Modify operating temperature to 0-40℃; Change PP-7600EK to PP-7900EK
2025/08/08	F0	Add microphone board for option

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1. Product Overview

1.1 Product Features

- Fan-less Design
- True-flat PCAP Touch Screen
- Scalable System Which Comes with a Series of PC Boxes to Meet Each Unique Need
- Modular Design for Easy Serviceability
- Two Mounting Options: Freestanding and Counter-top
- Various Peripheral Options: Camera, Proximity Sensor, Thermal Printer, Status Indicator, 2D Barcode Scanner, NFC/RFID Reader, WiFi and 4G Module

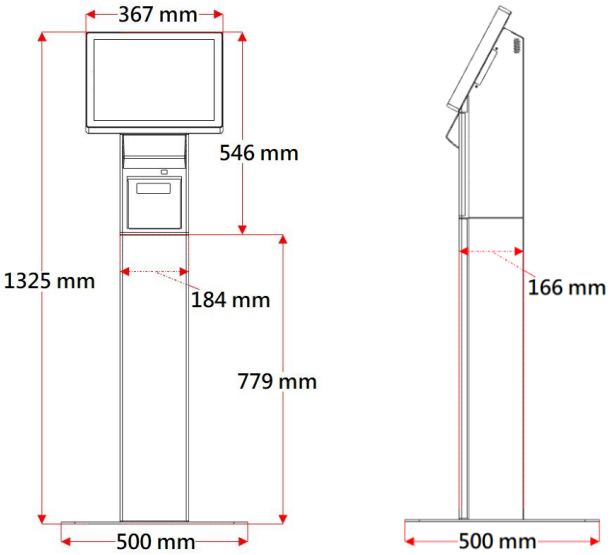
1.2 Specification and Drawing

	EK-1510/1610/2110/2410	**EK-1530/1532/1630/1632/2130/2132/2430/2432**	**EK-1550/1552/1650/1652/2150/2152/2450/2452**
System			
CPU	Rockchip RK3399 Dual Cortex-A72 + Quad Cortex-A53	**EK-xx30:** Intel Bay Trail J1900 CPU **EK-xx32:** Intel Elkhart Lake J6412 CPU	**EK-xx50:** Intel Kaby Lake-U Core i CPU **EK-xx52:** Intel Tiger Lake-U Core i CPU
Memory	4GB DDR4	**EK-xx30:** DDR3L SO-DIMM slot x 1, max. 8 GB **EK-xx32:** DDR4 SO-DIMM slot x 1, max. 16GB	**EK-xx50:** DDR4 SO-DIMM slot x 1, max. 16 GB **EK-xx52:** DDR4 SO-DIMM slot x 1, max. 32GB
Intel vPro Support	N/A		i3 CPU: N/A i5 CPU: Yes (for option)
TPM Support	N/A	Yes (for option)	
Storage			
Storage Device	32GB/64GB eMMC Micro-SD Card Socket	M.2 SATA SSD Slot x 1	
OS Support			
OS Support	Android 9.0 / Android 10 with GMS	**EK-xx30:** Windows 7 / POSReady 7 / Windows Embedded 8.1 Industry / Win 10 IoT 64-bit **EK-xx32:** Windows 10 IoT 64-bit	Windows 10 IoT 64-bit
Default Integrated Modules			

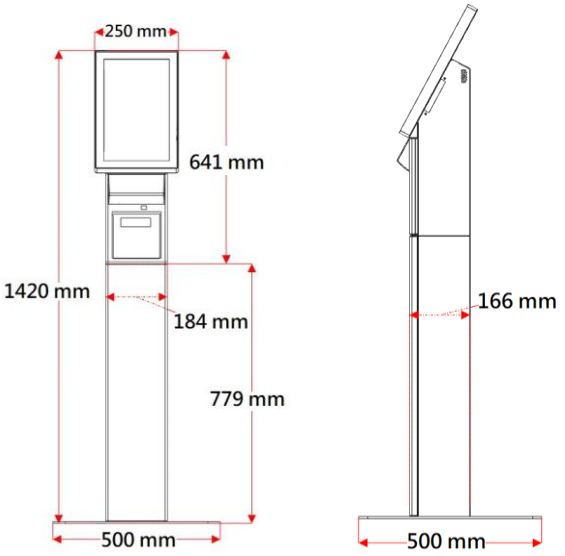
Printer	3” thermal printer, 250mm/sec.(max.) (PP-7900EK)		
Proximity Sensor	Proximity sensor (SU-100EK) 1. Range from 45cm ~ 80cm (for dark color objectives) 2. Range from 45cm ~ 150cm (for light color objectives)		
Camera	1MP wide angle camera (CM-100EK-P/CM-100EK-L)		
Main Display & Touch			
LCD Panel	**EK-15xx:** 15” LCD, 1024 x 768 XGA **EK-16xx:** 15.6” LCD, 1920 x 1080 FHD **EK-21xx:** 21.5" LCD, 1920 x 1080 FHD **EK-24xx:** 23.8” LCD, 1920 x 1080 FHD		
Touch Panel	True-flat PCAP touch with multi-touch support		
I/O Ports			
Display Port	HDMI port x 1 / Mini DP x 1; **Note:** Mini DP is carried through EDP signal.		
Serial Port	RJ-50 x 2	DB9 x 1 / RJ-50 x 2	
OTG	Micro-USB x 1	N/A	
USB Port	USB3.0 x 1 / USB2.0 x 5	**EK-xx30:** USB3.0 x 1 / USB2.0 x 7 **EK-xx32:** USB3.0 x 2 / USB2.0 x 6	**EK-xx50:** USB3.0 x 2 / USB2.0 x 6 **EK-xx52:** USB3.0 x 4 / USB2.0 x 4
LAN Port	10/100 Mb x 1 10/100/1000 Mb x 1	10/100/1000 Mb x 2	
Audio	Internal 3W speaker x 2		
Power			
Power Jack	DC-in jack x 1 (12V, 4-pin, connect to AC power adapter) DC-out jack x 1 (9V, 2-pin, connect to the optional EMV payment device)		
Power Source	1. System: 12V/60W AC adapter 2. Printer: 24V/60W AC adapter		
Expansion			
Expansion Slot	N/A	M.2 x 1	
Optional Modules			
Scanner	2D barcode scanner (CD-360xEK)		
NFC/RFID Reader	Support ISO/IEC 14443-A&B (MIFARE), JIS x 6319-4 (Felica), ISO/IEC 15693, NFC protocols - tag read/write (ISO/IEC-18092) (NR-100)		
Fingerprint Sensor	Capacitive Type		
Status Indicator	3-color status LED indicator (SI-100) (**EK-16xx/21xx/24xx Series:** for portrait mode only; **EK-15xx Series:** for landscape mode only)		
EMV Payment Device Bracket Support	Custom bracket support for various EMV payment devices		

4G LTE	Support selected bands & countries with full SIM slot (mini-PCIe module)
Wireless Comm.	**EK-xx10:** USB dongle (Android-based) **EK-xx30/xx32/xx50/xx52:** M.2 WiFi/BT module (Windows-based)
Microphone	Microphone board, support noise cancellation, beamforming, and echo cancellation; ensures stable and accurate voice pickup in ambient environments where the sound pressure level (SPL) does NOT exceed 65dB, designed for typical indoor use. The quality of sound pickup is related to the placement of the kiosk on site.
Mechanical	
Dimensions (W x D x H in mm) & Weight (N. W. in kg)	**EK-15xx:** Counter-top / Landscape: 395 x 395 x 550 / 18.8 kg Floor-standing / Landscape: 500 x 500 x 1325 / 31 kg **EK-16xx:** Counter-top / Portrait: 395 x 395 x 646 / 18.2 kg Floor-standing / Portrait: 500 x 500 x 1420 / 30.4 kg Counter-top / Landscape: 395 x 395 x 513 / 18.2 kg Floor-standing / Landscape: 500 x 500 x 1286 / 30.4 kg **EK-21xx:** Counter-top / Portrait: 395 x 395 x 774 / 22.6 kg Floor-standing / Portrait: 500 x 500 x 1546 / 34.8 kg Counter-top / Landscape: 540 x 395 x 588 / 22.6 kg Floor-standing / Landscape: 540 x 500 x 1362 / 34.8 kg **EK-24xx:** Counter-top / Portrait: 395 x 395 x 802 / 23.9 kg Floor-standing / Portrait: 500 x 500 x 1576 / 36.1 kg Counter-top / Landscape: 575 x 395 x 601 / 23.9 kg Floor-standing / Landscape: 575 x 500 x 1375 / 36.1 kg
Mechanical style	Floor-standing or Counter-top Style
Environmental	
Operating	0℃ ~ 40℃, 20%RH - 90%RH
Storage	-20℃ ~ 70℃, 10%RH - 90%RH
Regulatory	FCC/CE

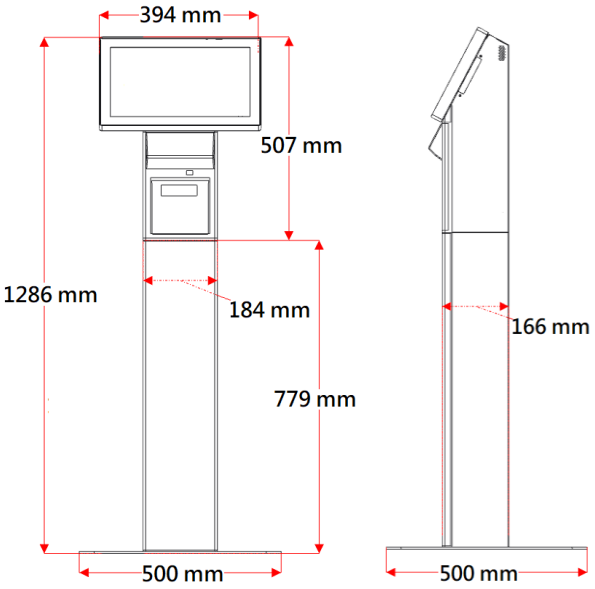
※ The product information and specifications are subject to change without prior notice.



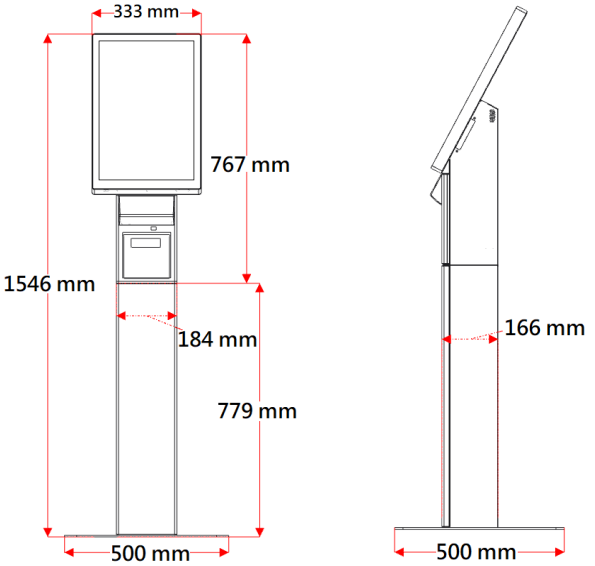
EK-15xx: Floor-standing / Landscape Mode



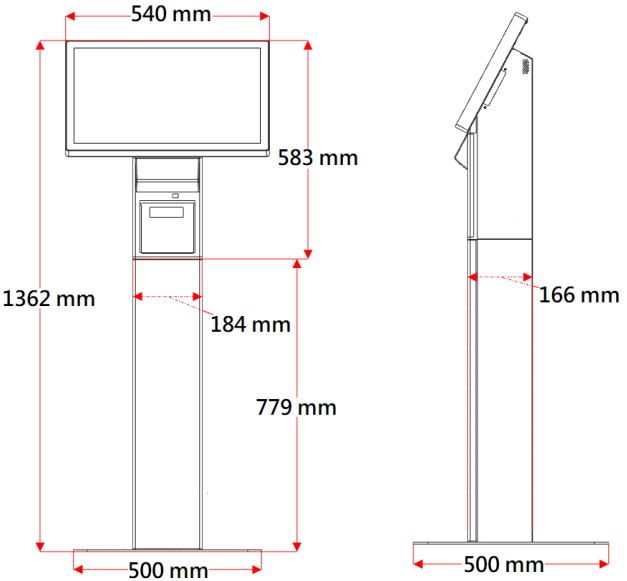
EK-16xx: Floor-standing / Portrait Mode



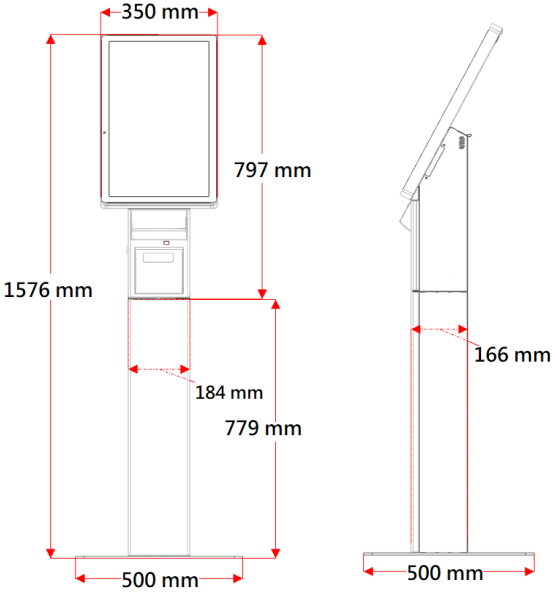
EK-16xx: Floor-standing / Landscape Mode



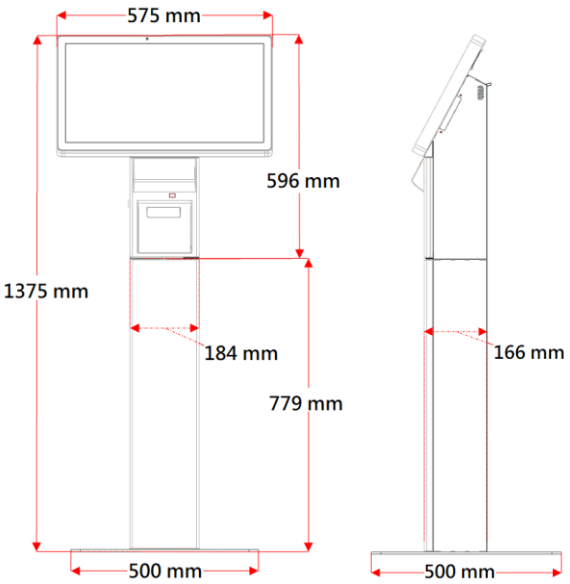
EK-21xx: Floor-standing / Portrait Mode



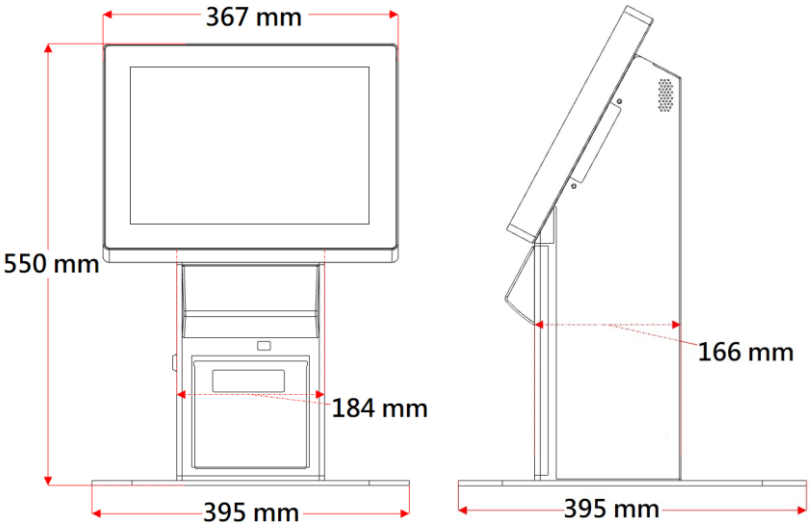
EK-21xx: Floor-standing / Landscape Mode



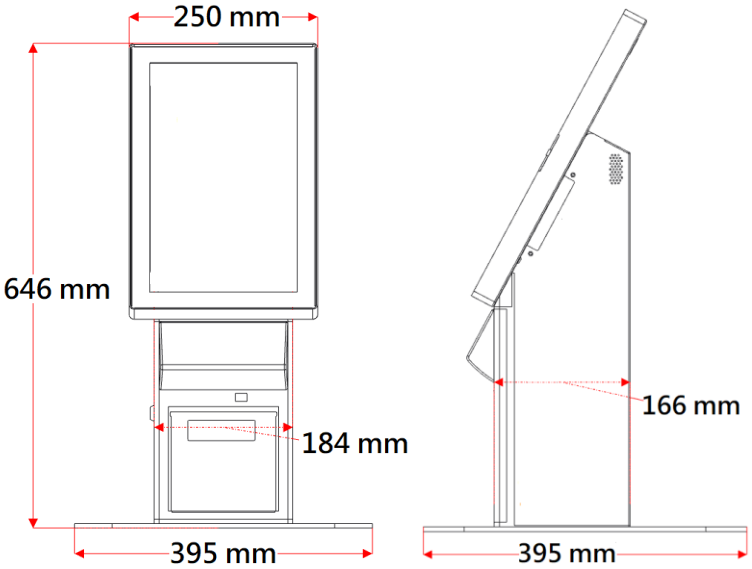
EK-24xx: Floor-standing / Portrait Mode



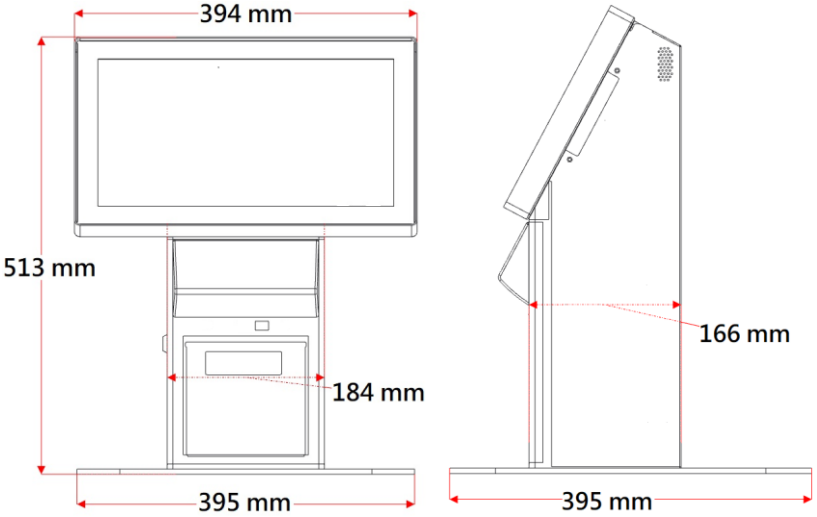
EK-24xx: Floor-standing / Landscape Mode



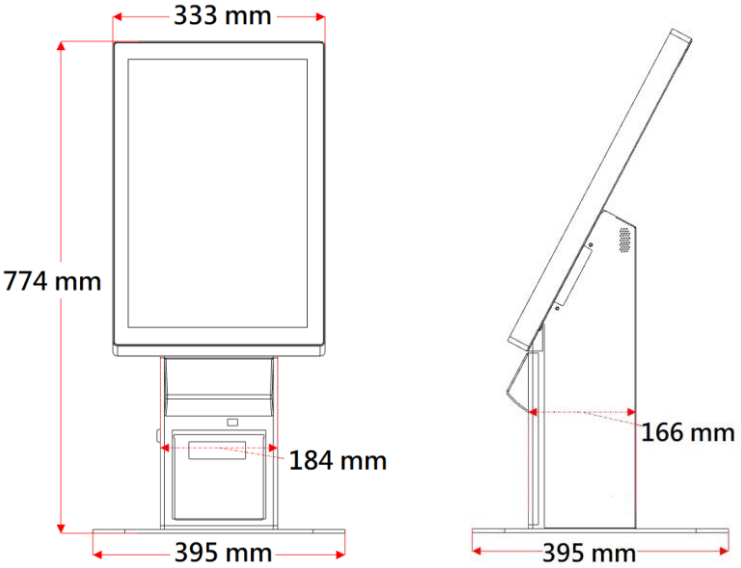
EK-15xx: Counter-top / Landscape Mode



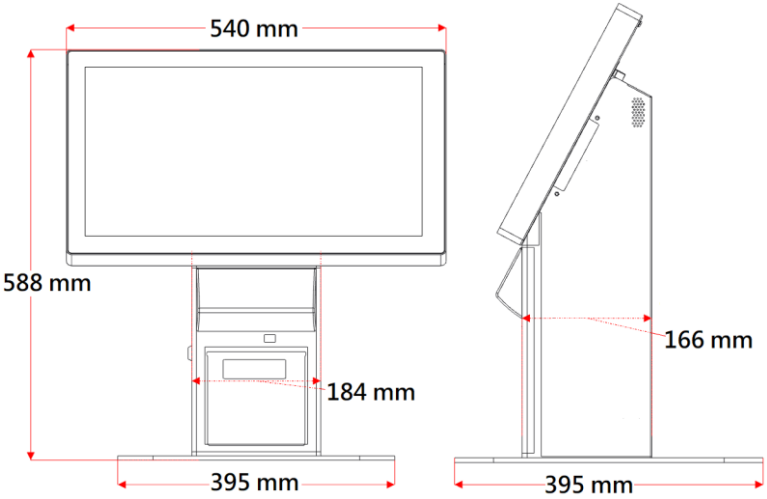
EK-16xx: Counter-top / Portrait Mode



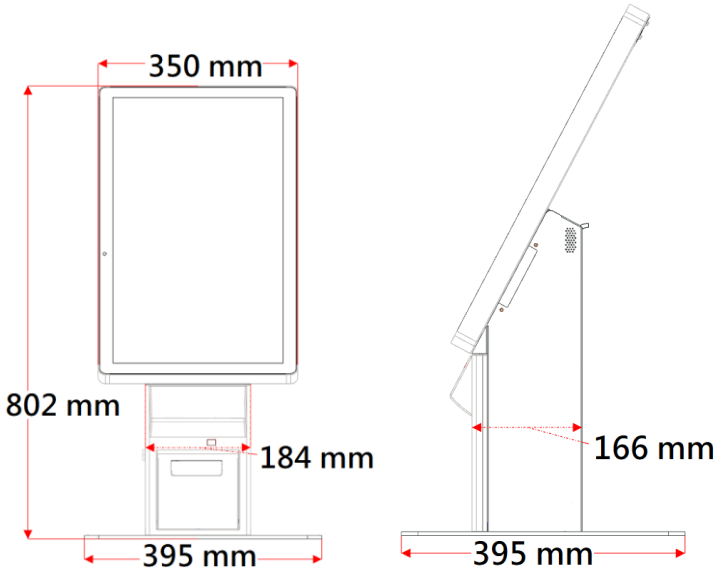
EK-16xx: Counter-top / Landscape Mode



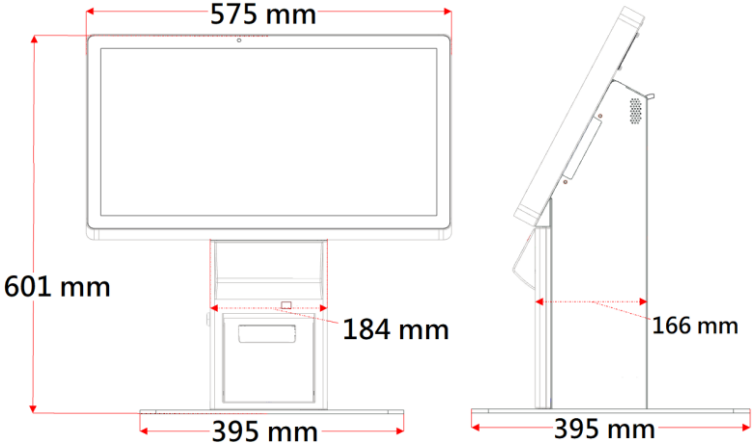
EK-21xx: Counter-top / Portrait Mode



EK-21xx: Counter-top / Landscape Mode

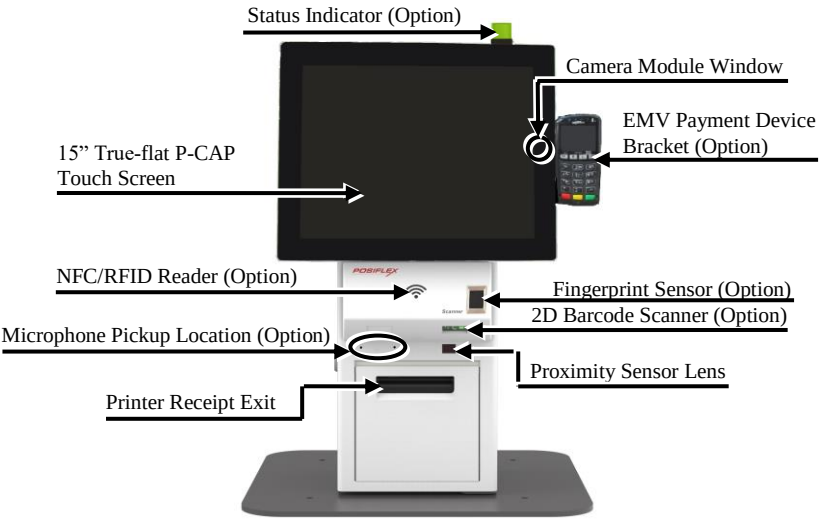


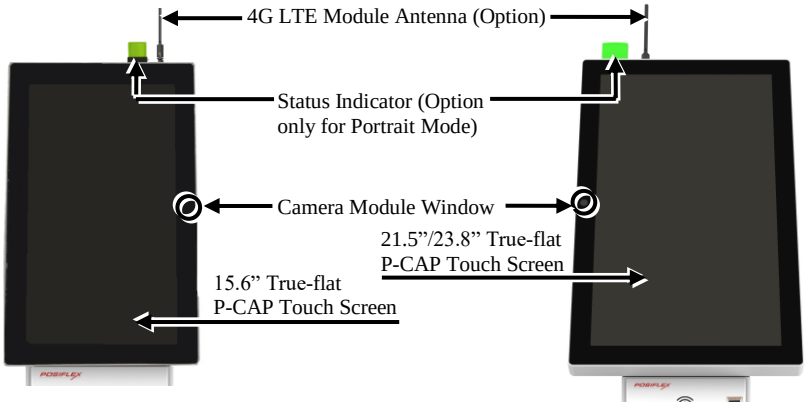
EK-24xx: Counter-top / Portrait Mode

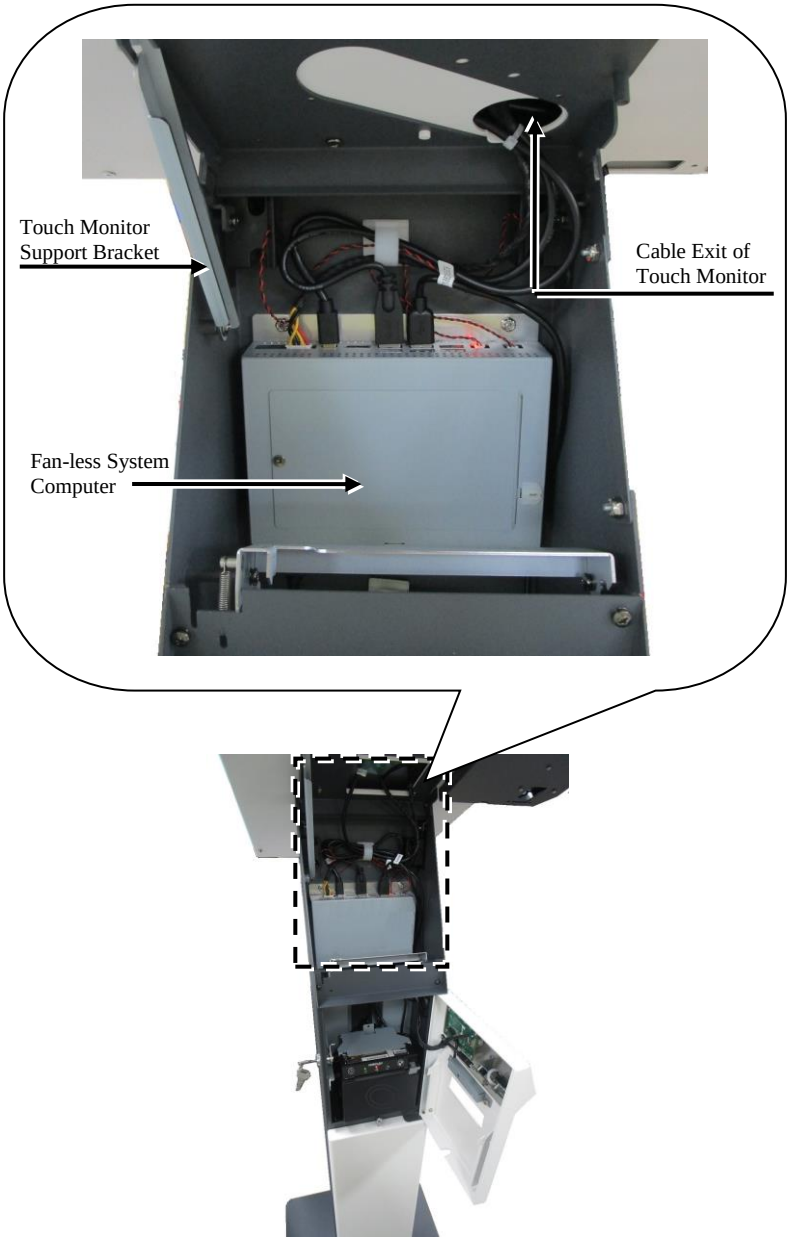


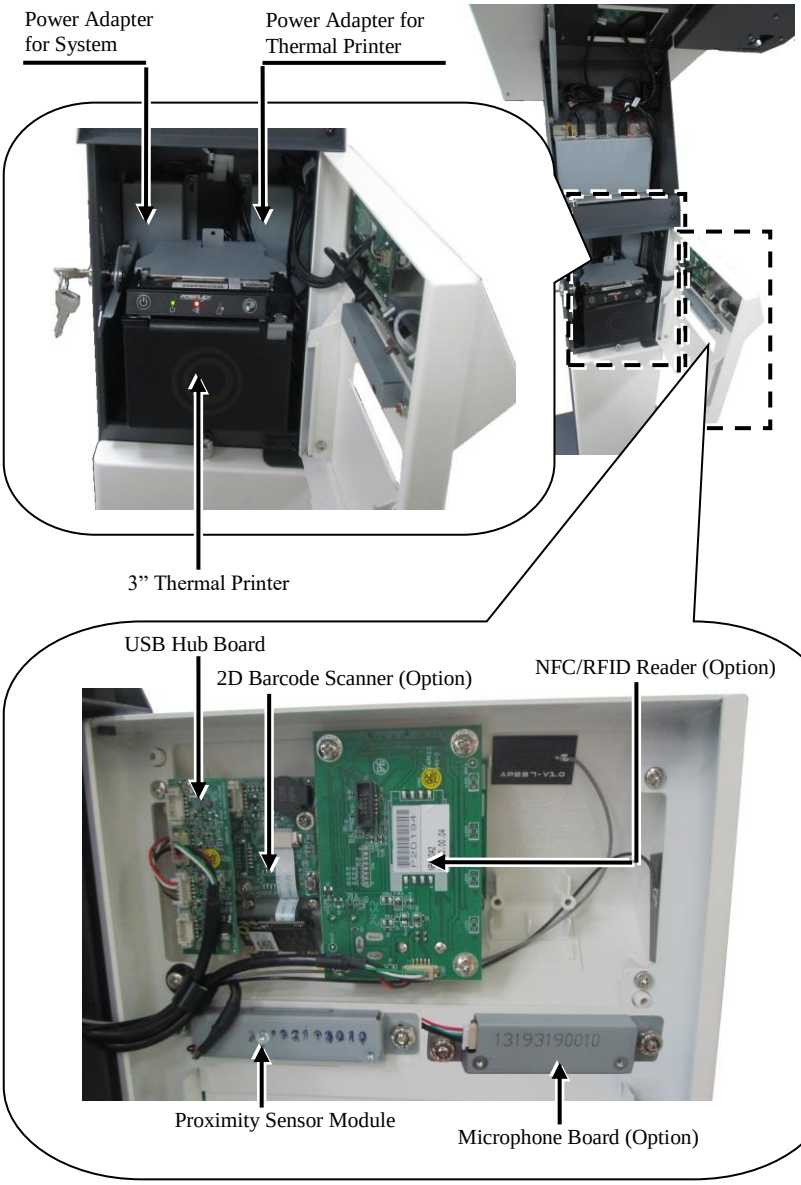
EK-24xx: Counter-top / Landscape Mode

1.3 Product Views



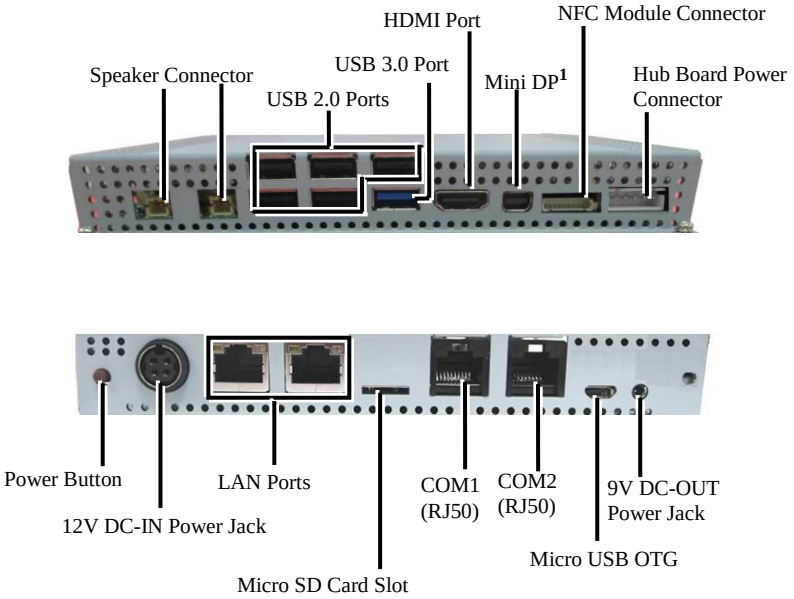



Touch Monitor
Support Bracket
Cable Exit of
Touch Monitor
Fan-less System
Computer


Power Adapter for System
Power Adapter for Thermal Printer
3” Thermal Printer
USB Hub Board
2D Barcode Scanner (Option)
NFC/RFID Reader (Option)
Proximity Sensor Module
Microphone Board (Option)

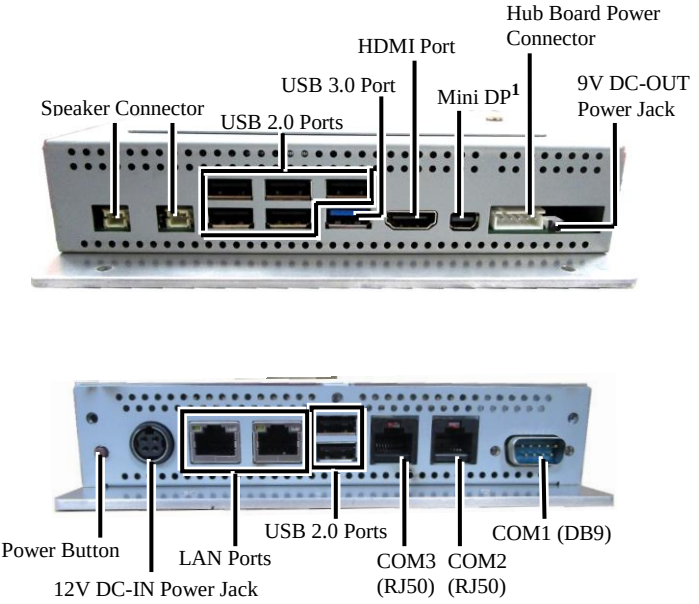
1.4 Introduction of PC Box

- **I/O Ports of the EK-1510/1610/2110/2410**



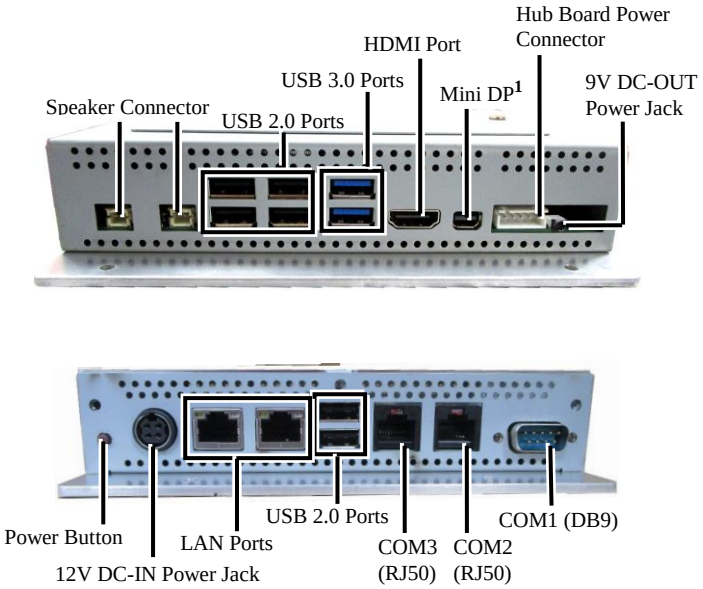
Note1: Mini DP is carried through EDP signal, and it is for Posiflex hub board only.

➢ **I/O Ports of the EK-1530/1630/2130/2430**



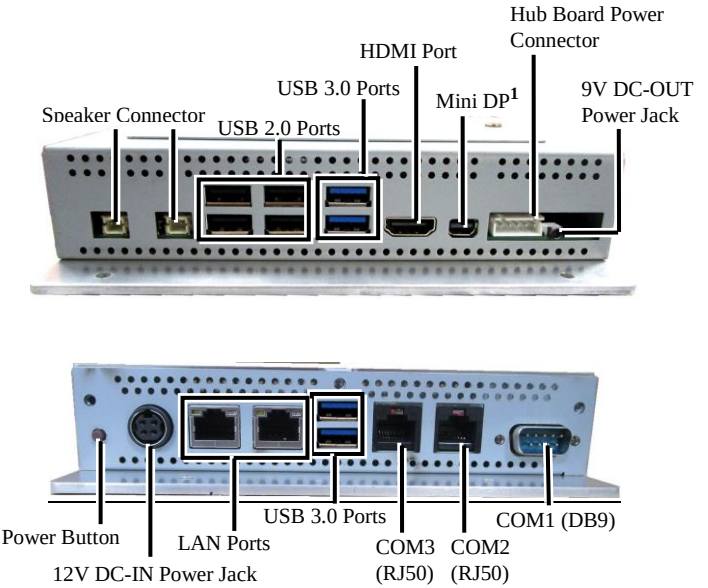
Note1: Mini DP is carried through EDP signal, and it is for Posiflex hub board only.

➢ **I/O Ports of the EK-1532/1550/1632/1650/2132/2150/2432/2450**



Note1: Mini DP is carried through EDP signal, and it is for Posiflex hub board only.

➢ **I/O Ports of the EK-1552/1652/2152/2452**



Note1: Mini DP is carried through EDP signal, and it is for specific hub board only.

➢ **I/O Connectors**

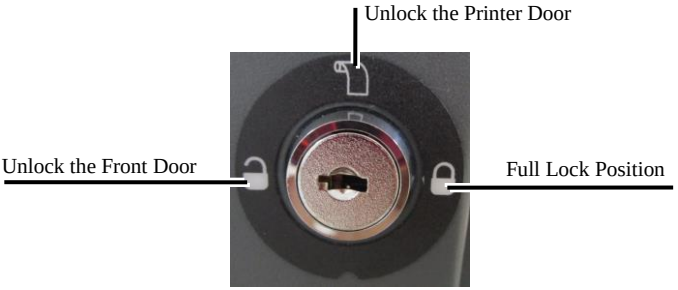
Cable connectors like the connector of LAN cable have to be gently inserted until a click sound is given. It is recommended that the I/O ports, such as COM (DB9) port, should be fastened with connector thumb screws after the I/O cable connectors are completely connected. And please make sure that each connector has to be connected to the right peripheral device in the right way.

CAUTION: On doing insertion or extraction of a cable connector, please always hold the connector head itself instead of pulling the cable wire. Doing this could damage the cables, which is considered as an artificial damage and is not covered by the warranty. The means of power cord should be connected to a socket-outlet with earthing connection.

ATTENTION: Lors de l'insertion ou de l'extraction d'un connecteur de câble, veuillez toujours tenir la tête du connecteur elle-même au lieu de tirer le fil du câble. Cela pourrait endommager les câbles, ce qui est considéré comme un dommage artificiel et n'est pas couvert par la garantie. Le cordon d'alimentation doit être connecté à une prise de courant avec mise à la terre.

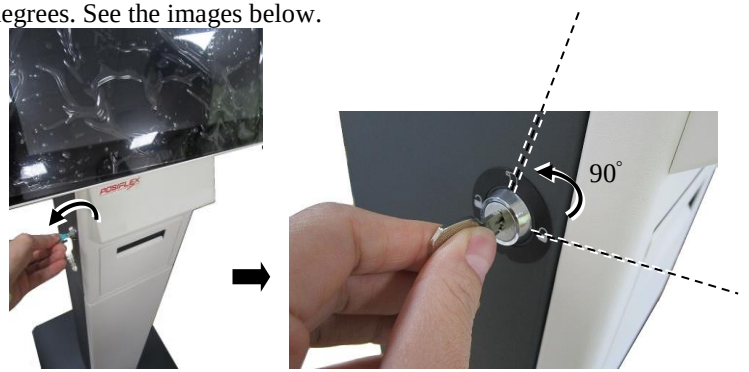
1.5 Introduction of the Lock

There are three positions of the lock.



➢ **Open the Printer Door**

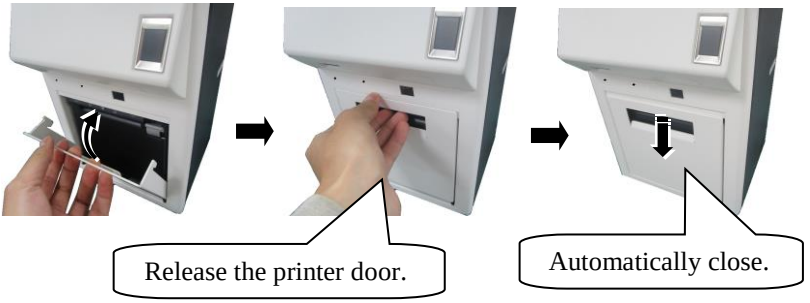
1. To unlock the printer door, turn the key counterclockwise to around 90 degrees. See the images below.



2. Once the printer door is unlocked, the user is able to gain access to the printer by lifting up the printer door. See the images below.



3. To close the printer, follow the direction shown in the below pictures, and then gently release the printer door. The printer door will close automatically.

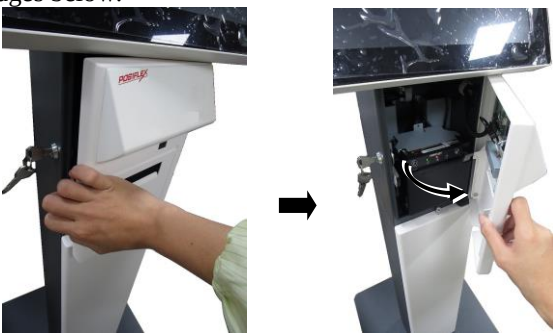


➢ **Open the Front Door**

1. To unlock the front door, turn the key counterclockwise to around 180 degrees. See the images below.



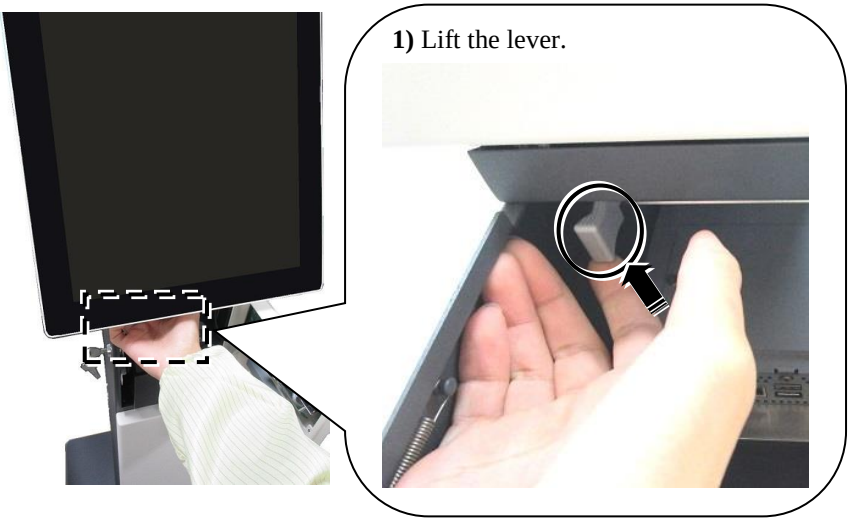
2. Once the front door is unlocked, the user is able to open the front door. See the images below.

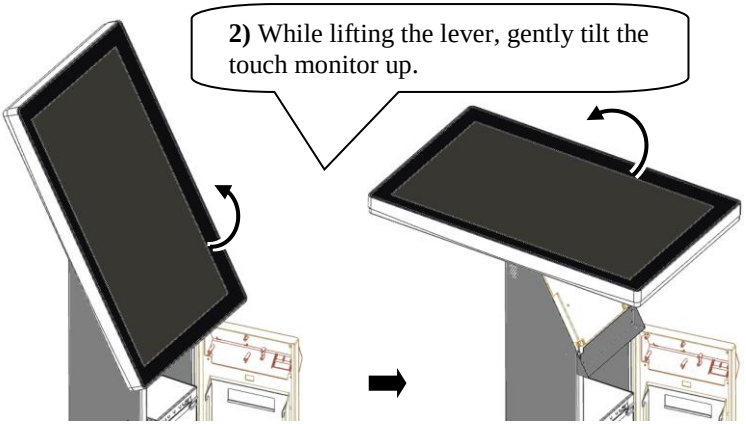


➢ **Open the Touch Monitor**

To open the touch monitor, you have to open the front door first.

1. **1)** Lift the lever on the left side of the touch monitor, and then **2)** gently tilt the touch monitor up. **3)** Then use the touch monitor support bracket to support the touch monitor. Please refer to the images below.





3) Use the touch monitor support bracket to support the touch monitor.



2. Product Installation

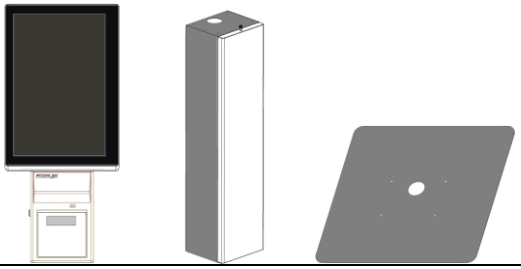
2.1 Floor-Standing Installation

Packing List of Floor-standing Configuration

Confirm that you have 3 main parts in a box:

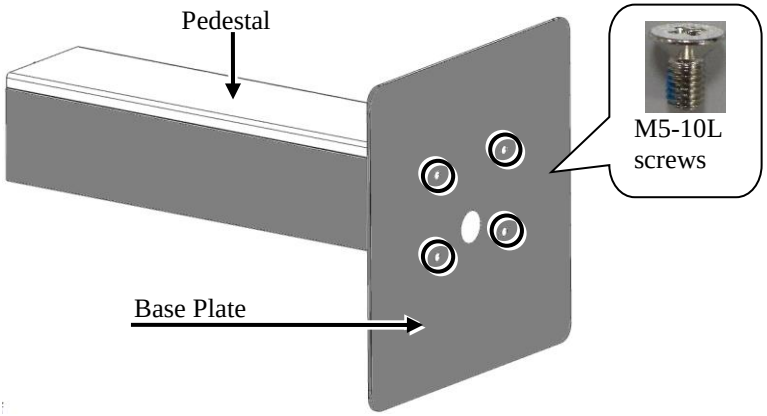
Box 1:

- ✓ Touch Monitor with Counter-top System Unit…….....…x1
- ✓ Pedestal…...……...x1
- ✓ Base Plate……..….x1
- ✓ Accessory Pack: 4 M5-10L Screws for Fixing Base Plate and Pedestal, 4 M5-10L Pan Head Screws for Fixing Counter-top System Unit and Pedestal, QR code for EK Series, Paper Roll, 2 keys

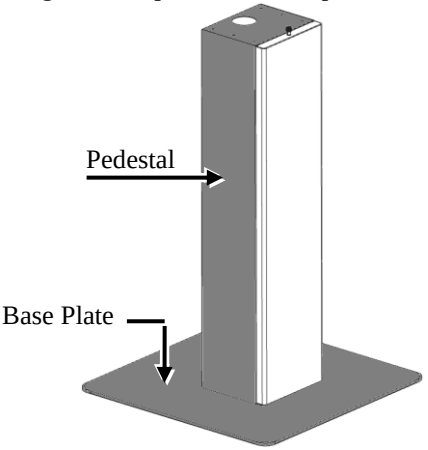


Step-by-Step Installation

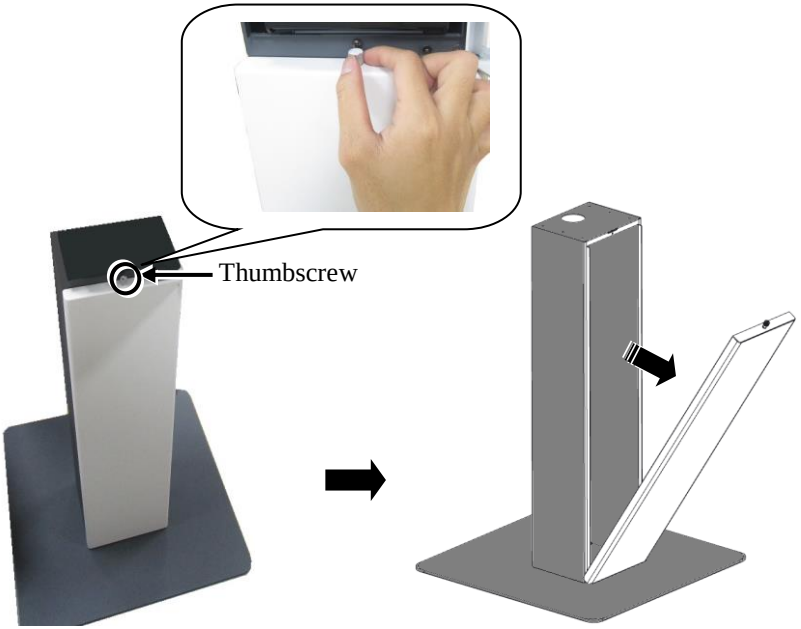
1. Place the pedestal horizontally on the ground or on the PE foam, and then assemble the pedestal and the base plate using four M5-10L screws.



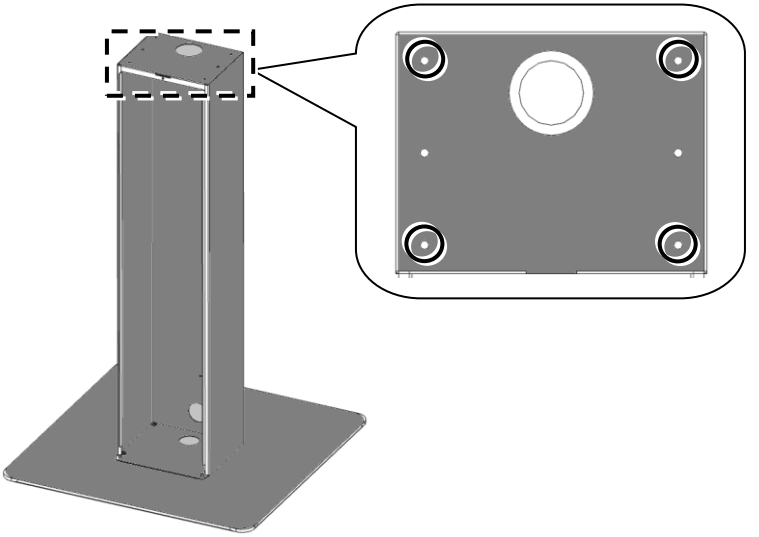
2. After installing the base plate, stand the pedestal up.

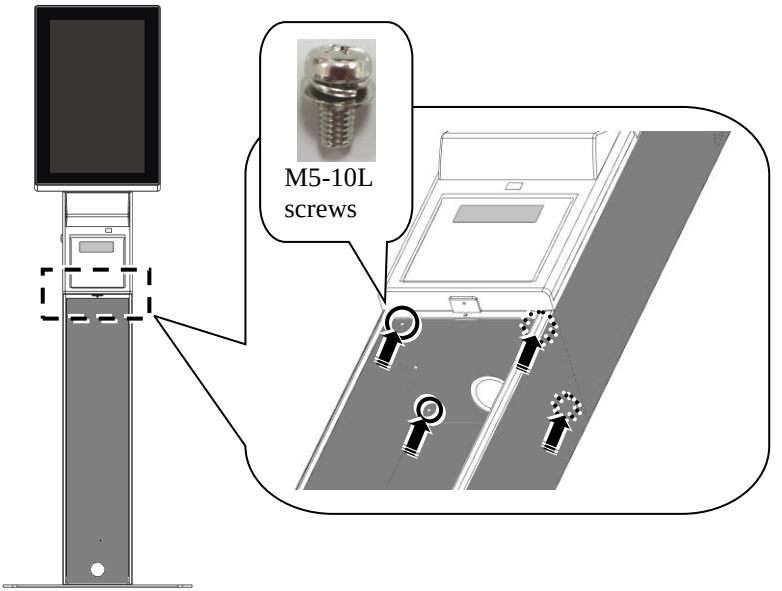


3. Open the front door of the pedestal by loosening the thumbscrew on the top side of the pedestal.

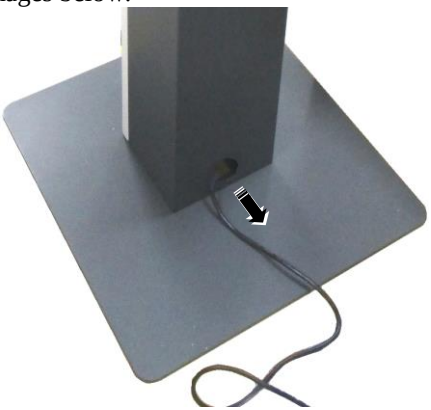


4. There are four screw holes on the top side of the pedestal, please refer to the diagram below. Attach the countertop kiosk system unit on the pedestal by using four M5-10L pan head screws.





5. Take out the power cord cable through cable exit of the pedestal. Please refer to the images below.



2.2 Counter-top Version Installation

Packing List of Counter-top Configuration

Confirm that you have 2 main parts in a box:

Box 1:

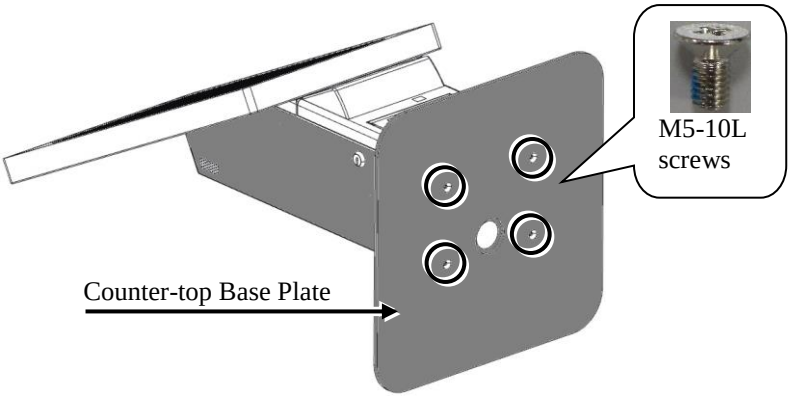
- ✓ Touch Monitor with Counter-top System Unit……..……...x1
- ✓ Counter-top Base Plate…….....…...…x1
- ✓ Accessory Pack: 4 M5-10L Screws for Fixing Counter-top System and Counter-top Base Plate, QR Code for EK Series, Paper Roll, 2 keys





Step-by-Step Installation

1. Place the counter-top unit horizontally on the ground or on the PE foam, and then assemble it and counter-top base plate using four M5-10L screws.



2. Take out the power cord cable through cable exit of the counter-top unit. Please refer to the images below.

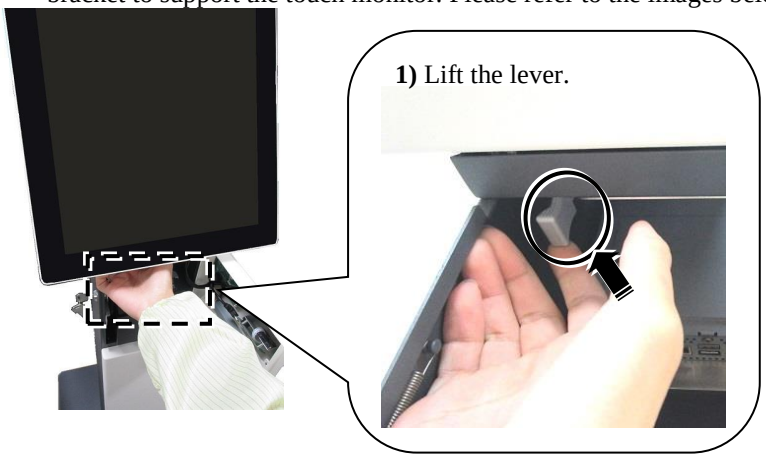


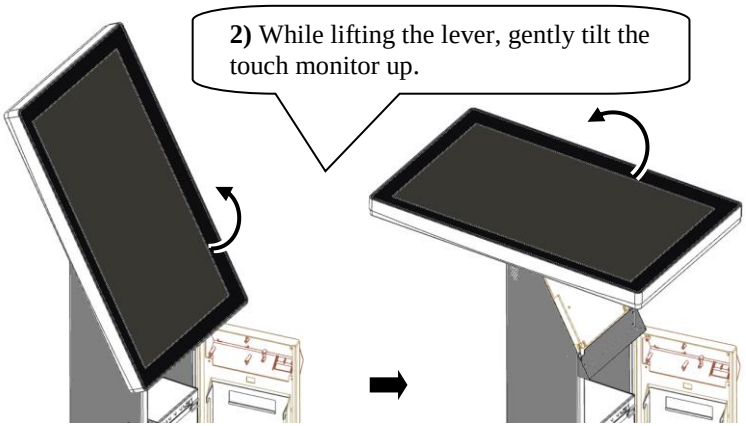
2.3 Rotate the Touch Monitor to Landscape Mode

➢ **EK-16xx Series**

To rotate the touch monitor to landscape mode, you have to open the touch monitor first. Please follow the instructions below. And please make sure the kiosk is completely shut down before you rotate the touch monitor.

1. Turn the key counterclockwise to around 180 degree to open the front door, **1)** lift the lever on the left side of the touch monitor, and then **2)** gently tilt the touch monitor up. **3)** Then use the touch monitor support bracket to support the touch monitor. Please refer to the images below.

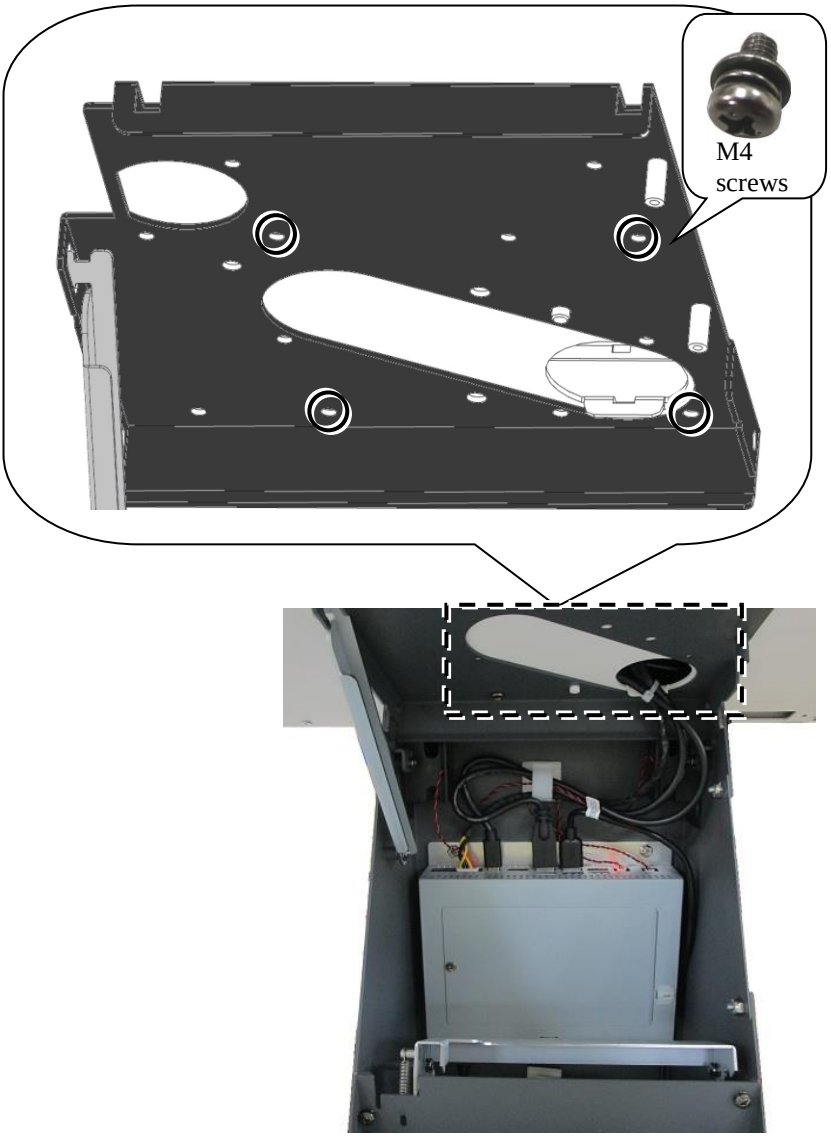




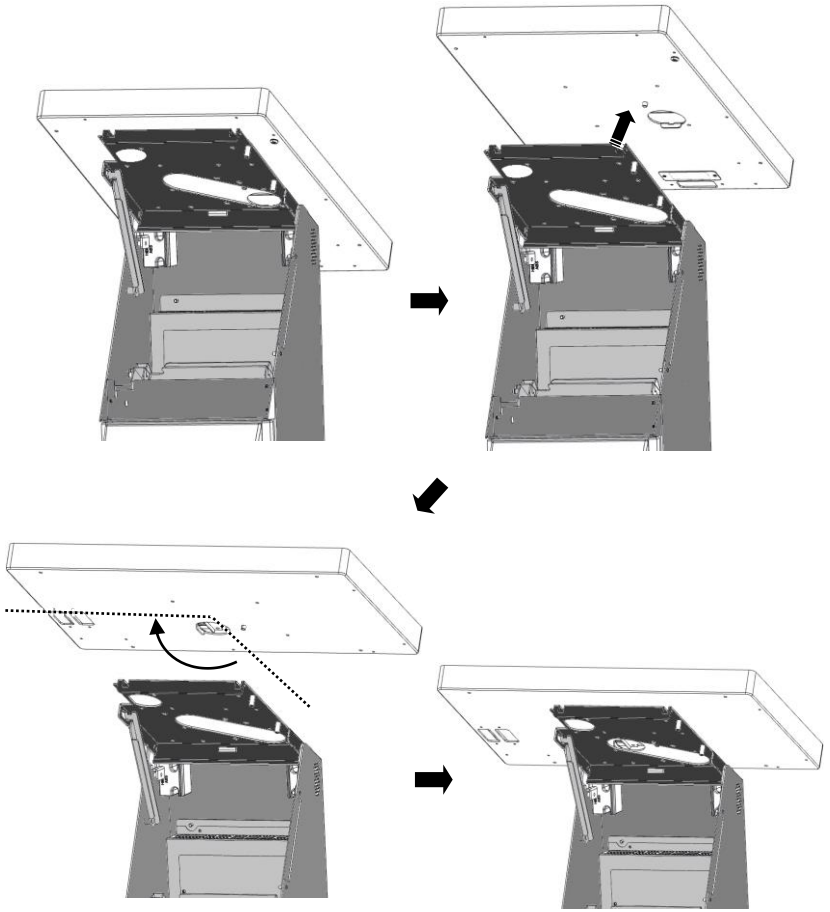
3) Use the touch monitor support bracket to support the touch monitor.



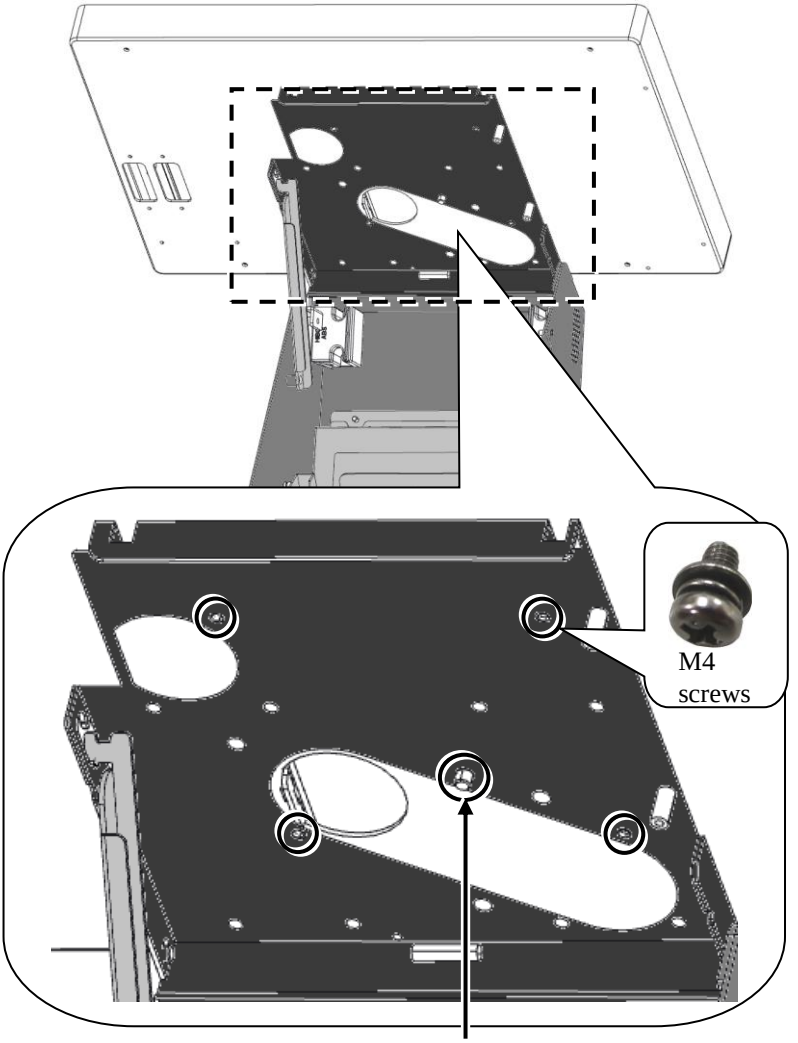
2. Loosen the four M4 screws as shown in the images below.



3. After loosening the four M4 screws, gently remove the touch monitor, and carefully rotate the touch monitor 90 degrees to the left (landscape) as shown in the images below.

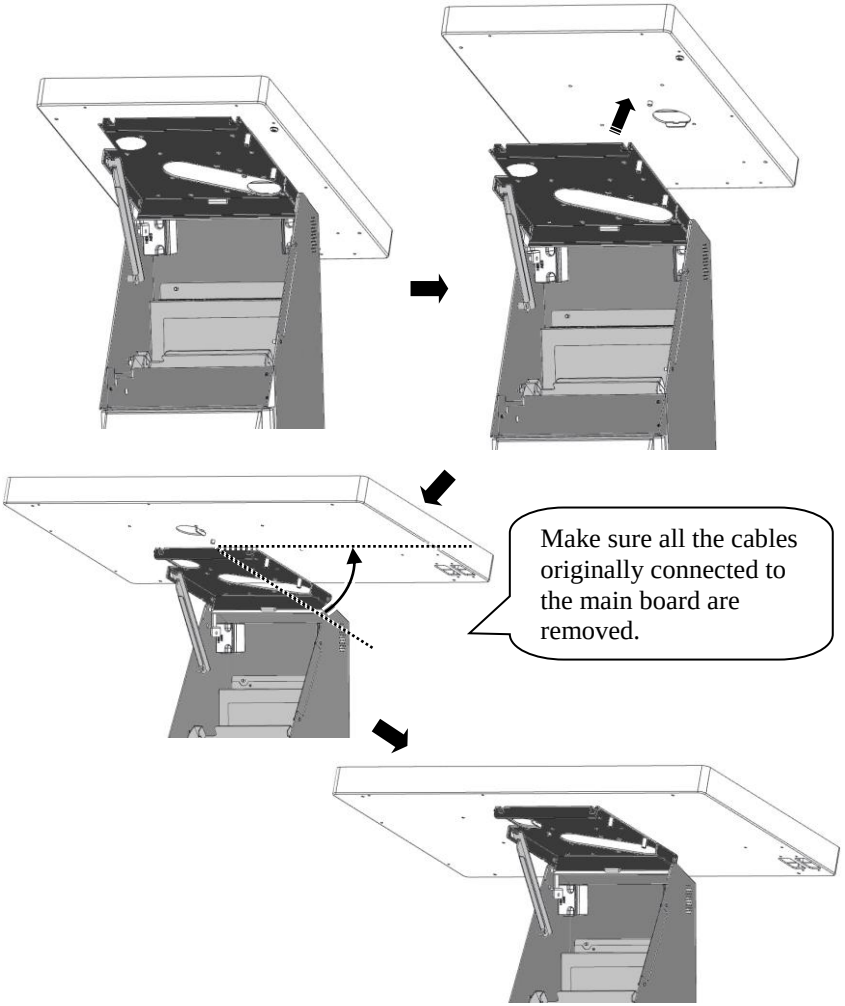


4. Align the positioning point to the positioning hole and then align the four screw holes of the touch monitor with the four screw holes on the touch monitor VESA bracket as shown in the images below. Make sure the cables pass through the cable exit, and then fix the touch monitor with the original four M4 screws. You can refer to the image of **Touch Monitor VESA Bracket** to confirm the screw hole positions.

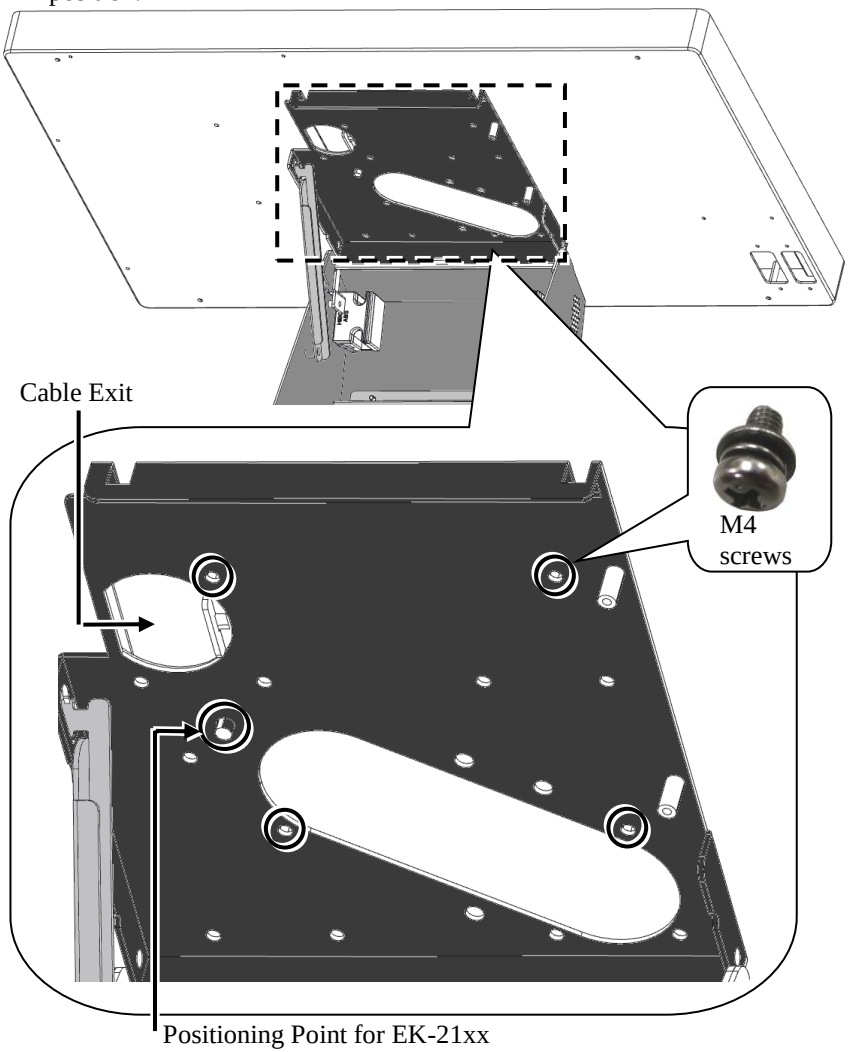


➢ **EK-21xx/24xx Series**

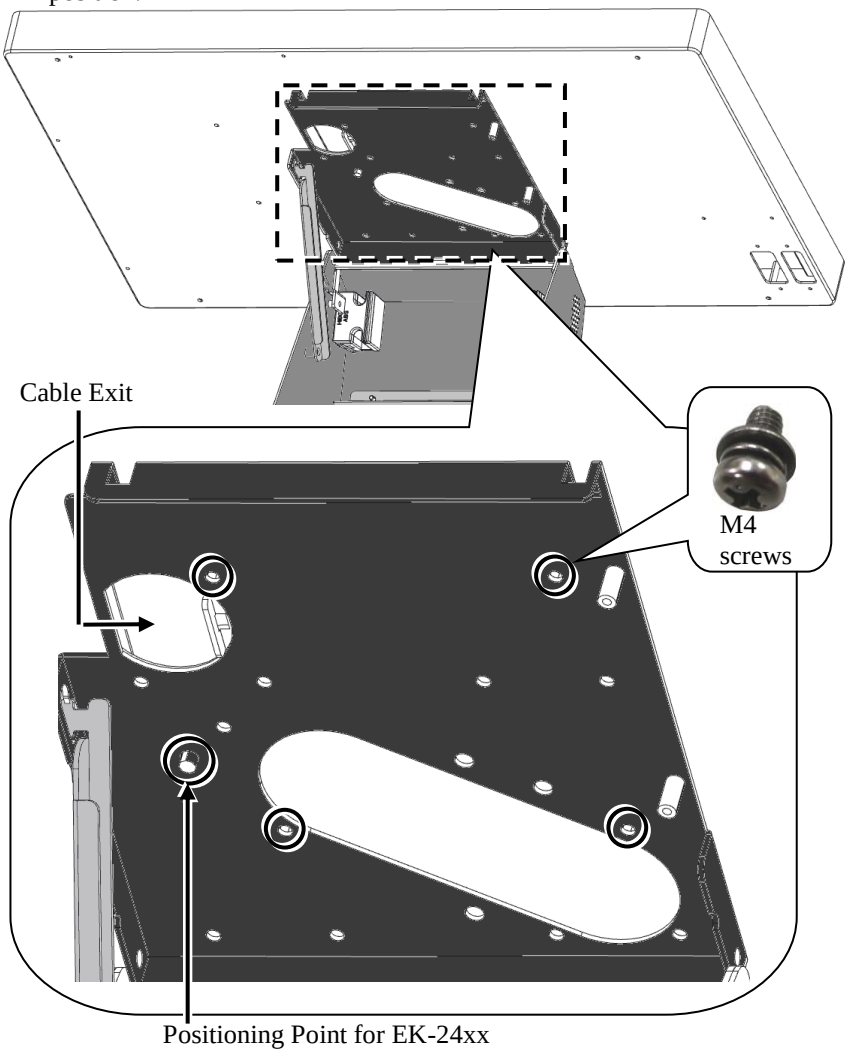
1. Please refer to **Step 1** to **Step 2** to remove the touch monitor. Then follow the instruction below to rotate and fix the touch monitor to the kiosk.
2. After loosening the four M4 screws, **disconnect the cables connected to the main board**.
3. Gently remove the touch monitor, and carefully rotate the touch monitor 90 degrees to the right (landscape) as shown in the images below.



4. **For EK-21xx Series,** align the positioning point to the positioning hole and then align the four screw holes of the touch monitor with the four screw holes on the touch monitor VESA bracket as shown in the images below. **Make sure the cables pass through the cable exit**, and then fix the touch monitor with the original four M4 screws. You can refer to the image of **Touch Monitor VESA Bracket** to confirm the screw hole position.

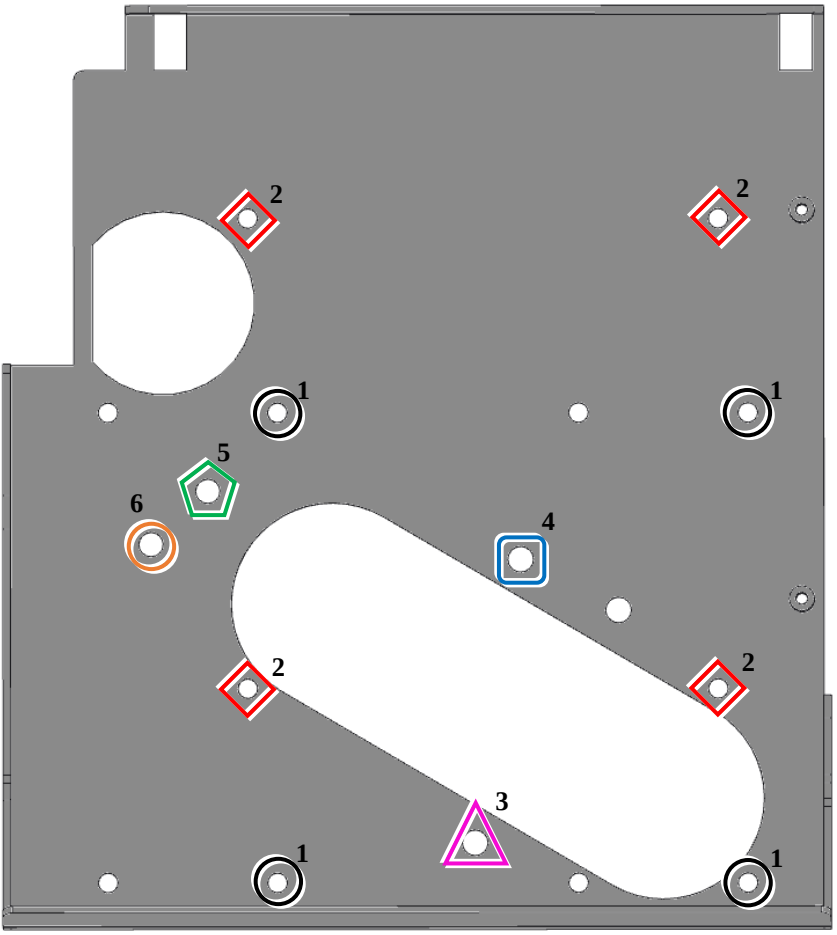


5. **For EK-24xx Series,** align the positioning point to the positioning hole and then align the four screw holes of the touch monitor with the four screw holes on the touch monitor VESA bracket as shown in the images below. **Make sure the cables pass through the cable exit**, and then fix the touch monitor with the original four M4 screws. You can refer to the image of **Touch Monitor VESA Bracket** to confirm the screw hole position.



➢ **Touch Monitor VESA Bracket**

The illustration below to help you with rotation of the touch monitor.



Note1: Screw holes for EK-16xx/21xx portrait mode, and for EK-15xx landscape mode

Note2: Screw holes for EK-16xx/21xx/24xx landscape mode

Note3: Positioning hole for EK-15xx landscape mode

Note4: Positioning hole for EK-16xx landscape mode

Note5: Positioning hole for EK-21xx landscape mode

Note6: Positioning hole for EK-24xx landscape mode

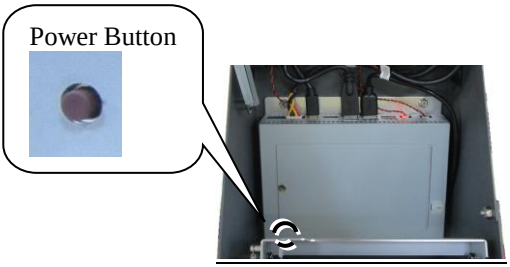
3. Powering ON/OFF the Kiosk

3.1 Powering ON EK Series

Press the power button located on the upper left side of the PCB to power on the EK Series.

3.2 Powering OFF EK Series

Press the power button to power the system off. To initiate a forced shutdown, please press and hold the power button for 10 seconds.



3.3 Driver Download

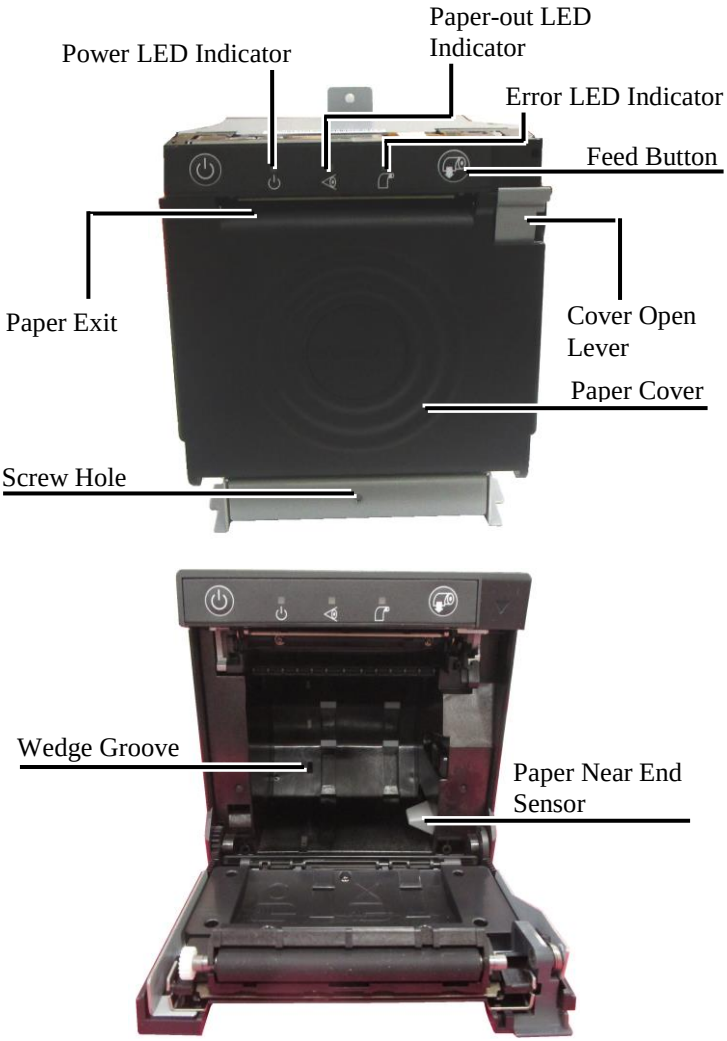
If your kiosk system is shipped without OS pre-installed, please download the relevant driver that you need from the Posiflex website (https://download.posiflex.com/en-global/Download/index/driver/Kiosk/MercuryEK1500). Please remember to select the model that you need.

4. Peripherals and Accessories

4.1 Standard Items

- **Thermal Printer PP-7900EK**

Overview

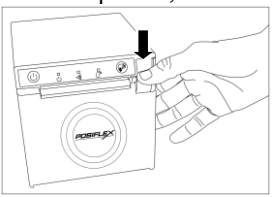
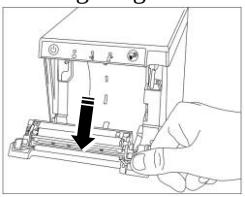
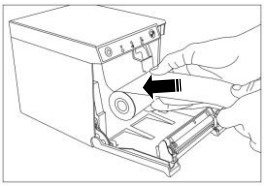


Part Names	Description
Power LED Indicator	This indicator turns on when the printer is on.
Error LED Indicator	This indicator works when the printer has something wrong. For more details, refer to the Status LED Indicators section given below.
Paper-out LED Indicator	This indicator turns on when the paper-out issue occurs.
Feed Button	Press this button once to feed the paper roll for one line. Hold down this button to continue feeding the roll paper
Paper Cover	Open this cover when installing or replacing the paper roll.
Cover Open Lever	Push this lever to open the paper roll cover.
Paper Exit	An opening where the paper is outputted
Wedge Groove	A settled routine that makes the paper spacer plate hard to escape
Paper Near End Sensor (Option)	Provided for adjusting the detection position to suit the diameter of the paper core used, and for adjusting the detection position of remaining amount of paper

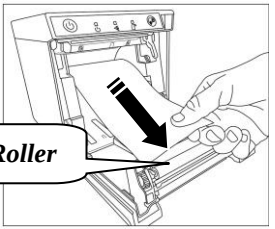
Loading a Paper Roll

Before loading a paper roll, make sure you use a specified paper type. Follow the steps below to load a paper roll.

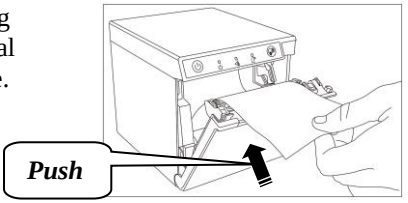
1. Press down the cover open lever to release the paper cover.
2. The paper cover ejects. Then, open the paper cover manually.
3. Drop the 80mm-wide thermal paper inside the paper compartment of the printer, as shown in the right figure.

4. Drag the paper roll to the portion where the paper roller is installed.
Next, set the paper width by using ***PP-7900 Series thermal Printer Software Switch Utility for Windows****. The software switch utility can be downloaded from the Posiflex' global website:* ***https://download.posiflex.com/en-global/Download/index/driver/Kiosk/MercuryEK1500?page=5****. To get more detailed information on the paper width jumper setting, contact directly the Posiflex' technical service team.*



5. To avoid the paper cover not being locked completely, push the central portion of the paper cover to close.



Status LED Indicators

After powering ON the printer, you can read the printer operation status from the power LED indicator on the printer. The LED status is described below.

LED	Status	Description
Power LED	Solid blue	Printer powered on
Error LED	Flash red + several beeps	Cutter abnormal
	Solid red	Cover open
	Flash red	Operation temp. high
Paper-out LED	Solid red + continual beep	Paper out

Troubleshooting

- The printer cannot print

If you cannot print even though an error has not occurred, perform a self-test to check if printing is possible.

Follow the steps below.

1. Close the paper cover.
2. While pressing the feed button, power on the printer. (Hold down the feed button until printing starts.) The current print status is printed.

3. Briefly press the feed button (less than one second) to continue the self-test. The printer prints using the built-in character set. After the self-test printing, the printer is reset and switches to standard mode.

- LED Indicators are On/Flashing/Off

No lights is given by the LED indicators

Check whether the power supply cable is correctly connected to the printer and the socket.

Error LED is on

- ✓ Check whether the paper cover is closed.
- ✓ Check if paper jam occurs or foreign substance enters the paper cutter.
- ✓ The thermal head and its surroundings can be very hot. Printing stops if the thermal head is too hot. Printing starts again automatically when the thermal head temperature falls.

Paper-out LED indicator is on

- ✓ Check whether the paper roll is correctly installed and any paper roll remains.

Error LED indicator is flashing

Power off the printer; after 10 seconds, power it back on. If the error LED indicator turns on again even after turning the power back on, malfunction may occurs. Contact your dealer or Posiflex' technical service team.

Specifications

General		
Life span at 25 ° C and rated energy)	Activation Pulse Resistance	100 million pulses or more
	Abrasion Resistance	150 km or more
	Paper Cutting Resistance	1,500,000 cuts or more
NV Bit Image Memory		24KB (max.)
NV Graphics		256KB (max.)
Receive Buffer		6KB
Printer Driver		Windows Driver (APD), OPOS, JavaPOS (Win), CUPS Driver (Linux)
Software		Posiflex Utility (Android), PP-7900 Utility (Windows Desktop), Development Tool (Android SDK), Monitoring Tool (RMS)
LED Indicators		Blue LED – On = Power Red LED - Error and/or Paper Out
Sensors		Cover Open / Out-of-paper / Paper Near End Sensor
Power Consumption		Approx. 1.5A (mean)
Power Source		AC adapter (24V DC)

Power Saving	N/A

Temperature	Print quality assured: +5℃~ +40℃/ Operating: 0 ℃~ +40℃/ Non-operating: -20℃~ +60℃
Relative Humidity	Operating: 20 ~ 85%, non-condensing 35% above for auto cutter / Non-operating: 5% ~ 90%, non-condensing (paper excluded)
Standards and Approvals	CE/FCC
Print	
Print Method	Thermal dot line printing
Print Speed	250 mm/second (max)
Print Resolution	576 dots/line (W 8 dots/mm x H 8 dots/mm)
Print Direction	Vertical and Horizontal
Print Fonts	
Fonts/Column capacity	Font A: 12 x 24 dots 48col (Default) Font B: 10 x 17 dots 57col Font C: 9 x 17 dots 64col
Character Size	Font A: 1.25 x 3.00 mm Font B: 1.13 x 3.00 mm Font C: 0.88 x 2.13 mm
Character Set	95 Alphanumeric, 18 International, 128 x 43 Graphic
Barcode	UPC-A/E, EAN13/8, ITF, CODE39/93/128, CODABAR, GS1 DataBar
2D Symbol Printing	PDF417, QR code
Media Handling	
Type	Thermal roll paper
Print Width	64 mm (512 dots/line, default)/72 mm (576 dots/line) /53 mm (424 dots/line)
Paper Width	80 or 58 + 0 / - 1 mm
Roll Diameter (Max)	80 + 0 / - 1 mm
Core Inner Diameter (Min.)	Ø 8 mm
Paper Thickness	60 ~ 80 um
Paper Guide	Yes
Auto Cutter	Yes
Connectivity	
USB Interface	Built-in USB type-B cable
DC Jack	24V DC (3-pin) power cable
Operating System	
OS support	Android / Windows / Linux

※ The product information and specifications are subject to change without prior notice.

- **Camera Module CM-100EK**

Specifications

Camera		1MP wide angle camera
Output Interface		USB 2.0 interface
Input Supply Voltage		5V
Field of View	Vertical	50.8°
	Horizontal	86.6°
	Diagonal	100°

※ The product information and specifications are subject to change without prior notice.

- **Proximity Sensor SU-100EK**

Specifications

Sensing Range	1. Range from 45cm ~ 80cm (for dark color objectives) 2. Range from 45cm ~ 150cm (for light color objectives)

※ The product information and specifications are subject to change without prior notice.

4.2 Optional Items

- **2D Barcode Scanner**

Scanner Maintenance

The scanner is designed for long-term trouble-free operation and rarely requires any maintenance. Only an occasional cleaning of the scanner window is necessary in order to remove dirt and fingerprints. Wipe the scan window with a soft lint-free cloth and a non-abrasive cleaner to avoid the scan window from being scratched and damaged. The scan window can be cleaned while the scanner is running.

Trigger Mode

The scanner for EK series model is auto trigger by default. The manual trigger button is for scanner setup. It is highly recommended that the scanner setup is implemented by professional technicians.

Trouble Shooting

This section contains information about how to solve problems that you may encounter when operating the scanner. If a trouble occurs, please refer to the following diagnostic tips as a mean to solve the trouble. However, before

referring to the tips, make sure that the scanner is installed well. If the problem remains, contact your dealer.

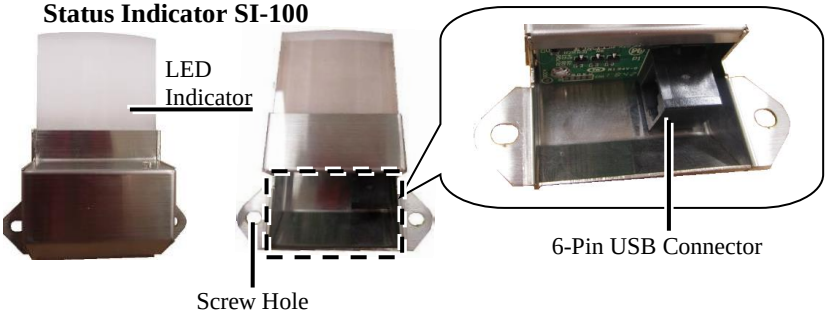
Problem	Diagnostic Tips
The scanner is on but cannot read any barcode.	The scanner window is dirty. Clean the scanner window as described in the **Scanner Maintenance** section.
	The presented barcode type is not enabled. Use this guide to tell the scanner to accept that type of barcode.
	The host terminal has disabled the scanner. Check the setup of host terminal.
	The barcode type presented is not supported by the scanner.
The scanner does not accept more than two or three barcode labels.	Determine whether the required barcode types are enabled or not.
	A stray barcode is sitting somewhere in the scanner field of view. Remove all barcode labels from the scanner's scan volume and try again.
	The scanner cannot send the data to the terminal system. Make sure that the scanner is installed well and your host terminal is ready to receive data.
A barcode is read by the scanner but not accepted by the terminal system.	The communication settings of the system port and the scanner do not match. Adjust the settings to make them match to each other.
	The scanner is not installed well. Contact your dealer for the proper installation. The software running on the terminal system does not support the data format of the barcode label.

Programming Codes

EK series can integrate with CD-3601EK, CD-3602EK…..etc. Different scanner model use different scanner engine. For instance, CD-3601EK use MDI-4100 scanner engine, CD-3602EK use N1 scanner engine….. Therefore, they support different programming codes. To do advanced settings of the scanner, please download the relative user manual in our global website, or contact our service team.

※ The product information and specifications are subject to change without prior notice.

➢ **Status Indicator SI-100**



Status Indicator

The default LED status is described below.

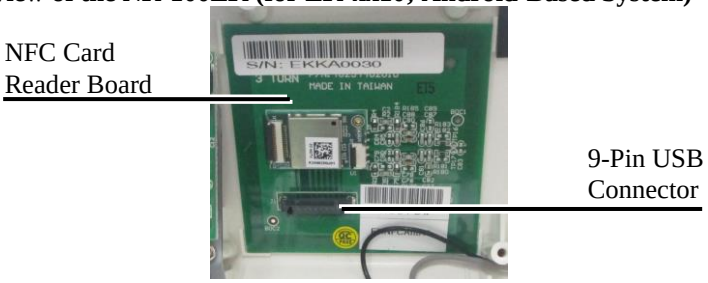
Status	Description
A flash of green	Kiosk powered on

※ The product information and specifications are subject to change without prior notice.

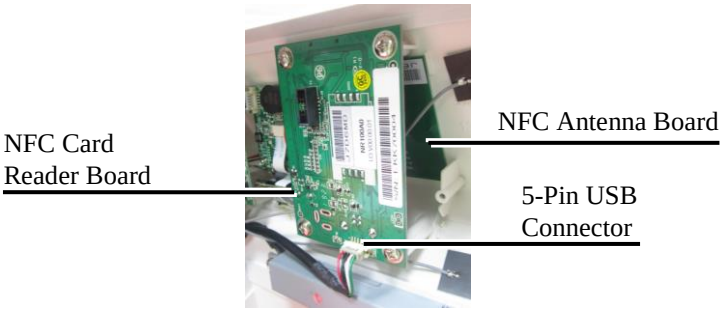
To get more detail information of SI-100, please contact the service team of Posiflex.

➢ **NFC/RFID Reader NR-100EK**

Overview of the NR-100EK (for EK-xx10; Android-Based System)



Overview of the NR-100EK (for EK-xx30/xx32/xx50/xx52; Windows-Based System)



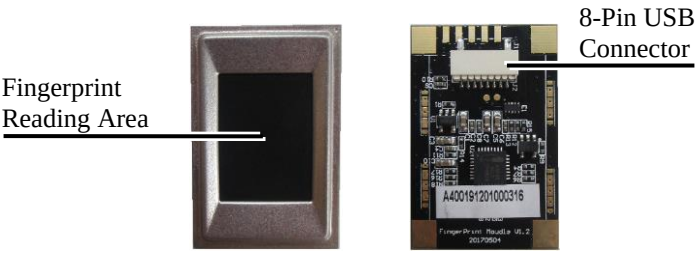
Using the NR-100EK Card Reader

To retrieve data through the RFID card reader, tap your Mifare card against the RFID reader.



※ The product information and specifications are subject to change without prior notice.

- **Fingerprint Sensor**



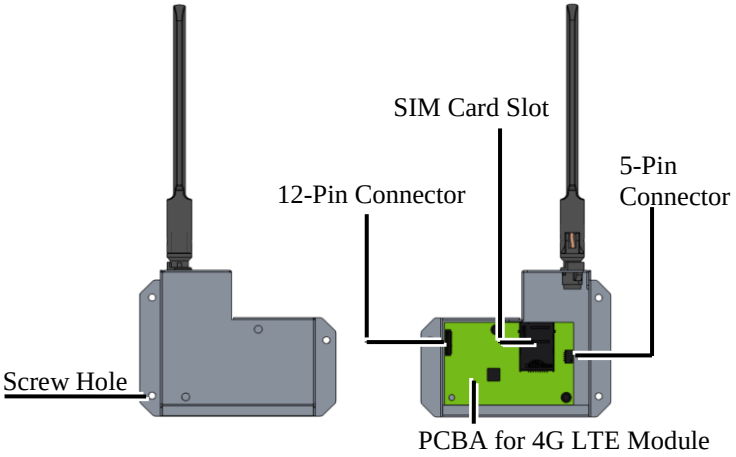
Fingerprint Sensor

Keep your thumb close to the fingerprint reading area to allow the fingerprint sensor to read your thumb fingerprint.



※ The product information and specifications are subject to change without prior notice.

- **4G LTE Module 4G-100K**



EC25 contains several variants, supporting selected bands & countries with full SIM slot (mini-PCIe module) by request. To get more detailed information of 4G LTE module 4G-100K, please contact the service team of Posiflex.

- **WiFi Module WF-660EK (for EK-xx30/xx32/xx50/xx52; Windows Version)**

Specifications

Original Model Name/Brand	7265NGW/Intel
TX/RX Streams	2x2
Bands	2.4 GHz, 5GHz
Max. Speed	867Mbps
WiFi Certified	802.11ac
Board Form Factor	M.2 2230, M.2 1216
System Interface Type	WiFi(PCIe)

※ The product information and specifications are subject to change without prior notice.

To get more detail information of WF-660EK, please contact the service team of Posiflex.

- **WiFi Module WF-770EK (for EK-xx10; Android Version)**

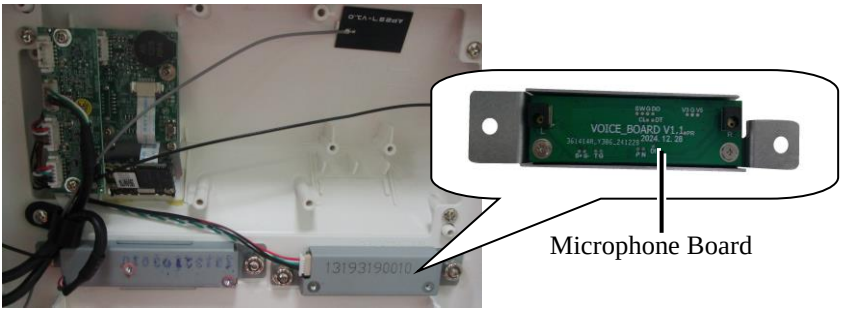
Specifications

Original Model Name/Brand	WMU6205/jjPlus
Chipset	Realtek RTL8822BU
TX/RX Streams	2x2
Bands	2.412~2.484 GHz, 5.150~5.850 GHz
Max. Speed	867Mbps
WiFi Certified	802.11a/b/g/n/ac
System Interface Type	WiFi(USB)

※ The product information and specifications are subject to change without prior notice.

To get more detailed information of WF-770EK, please contact the service team of Posiflex.

- **Microphone Board**



Specifications

Input Voltage	+4.5V ~ +6V
Acoustic Echo Cancellation (AEC)	Support
Beamforming Technology	Support
Noise Suppression	Support
Interface	USB
Microphone Sensitivity	-22±1 dBFS
Microphone SNR	61
Noise Reduction Adaptive Time	5 ~ 8ms
Operating System Requirements	Support Windows / Android

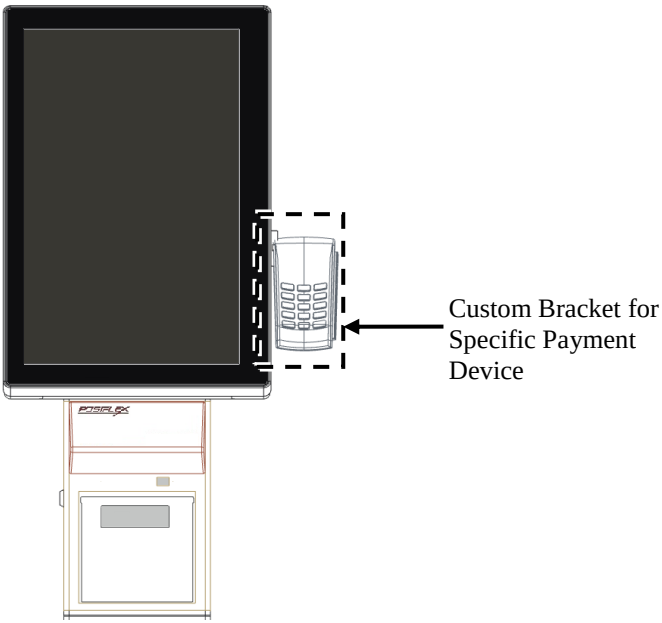
Application in EK Series Kiosk

The microphone board ensures stable and accurate voice pickup in ambient environments where a sound pressure level (SPL) does NOT exceed 65 dB, designed for typical indoor use. The quality of sound pickup is related to the placement of the kiosk on site.

To get more detailed information, please contact the service team of Posiflex.

※ ***The product information and specifications are subject to change without prior notice.***

➢ **Mounting Bracket for Specific Payment Device: EB Series Overview**



To do more installation or get more detailed information of EB series mounting bracket kits, please contact your dealer or the service team of Posiflex.

※ ***The product information and specifications are subject to change without prior notice.***