Rev.01 USER GUIDE PP SERIES mod. PP-9745W EC F

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PP SERIES | PP-9745W

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CE Conformity Declaration

This appliance complies with the following directives and regulations:

2014/35/UE	LVD "Low Voltage" Directive
2014/30/UE	EMC Directive "Electromagnetic Compatibility"
2011/65/UE	Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS II) and subsequent amendments according to Directive 2015/863/EU (RoHS III) and Directive 2017/2102
2009/125/CE	Directive on the establishment of a framework for the development of ecodesign specifications for energy-related products
(UE) N. 617/2013	Regulation laying down implementing measures for Directive 2009/125/EC of the European Parliament and of the Council on ecodesign requirements for computers and computer servers
(CE) N. 1907/2006	Regulation concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH)



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Chapter 1 General

Package material list

Here's below packaging material list:

	Supplied Material
1	15.6" PP-9745W
2	Base to assemble
3	AC Cable
4	x1 RJ-45 to D-sub9 Cable
5	20V 130W Power Supply

Before installation

Once the content's packaging is checked, it's advisable to keep it to allow any computer's transport viable and safer.

After the unpackage, arrange all the materials on a work surface. Then, carefully follow the instructions in the following chapters.

Warranty Notes

We recommend that you read the warranty certificate and make sure that it has been filled in with the date of purchase, the dealer's stamp, and the data relating to the model and serial number.

The latter can be found on the label glued to the back of the basic module.

Safety

Carefully read these safety directions:

- Unplug from the power outlet before cleaning, disassembling, or transporting. Do not use liquid cleaners or sprays for cleaning. Use only a damp cloth and avoid any prolonged contact with moisture.
- 2) Lay the machine on a stable surface before maintenance or use, to avoid accidental falls.
- 3) The panel's back grilles are ventings. DO NOT COVER.

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- 4) Make sure the voltage and load are correct before connecting the machine to the power outlet.
- 5) Safely place the power cord to avoid accidental trips. Do not twist, pinch, or knot it.
- 6) Follow all precautions and warnings printed on the machine.
- 7) If the machine isn't long-time used, unplug it from the power source.
- 8) Do not pour any liquid into the openings. It could cause fire or electric shock.
- 9) Only qualified service personnel should open and repair the equipment.
- 10) If one of the following situations occurs, have the machine checked by our technical service:
 - a. The power cord, plug, or adapter is visibly damaged.
 - b. Liquid has entered the machine.
 - c. The machine has been exposed to moisture.
 - d. The machine fell and was damaged.
 - e. The machine has obvious signs of breakage.
- 11) DO NOT LEAVE THE MACHINE IN AN UNCONTROLLED ENVIRONMENT WHERE THE STORAGE TEMPERATURE IS BELOW -20°C (-4°F) OR HIGHER THAN 60°C (140°F)

Chapter 2 System Presentation



Based on 12th generation Intel® Core processors, it offers high performance with low power consumption. It can mount high-speed SSD drives.

Based on back-panel electronics, which allows the use of the Panel PC both by exploiting the robust and sturdy base and wall/arm placement thanks to the standard VESA attachment located on the back of the PC.

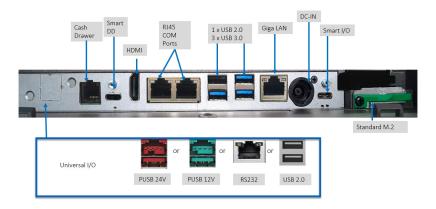
Designed to reduce bulk with a decidedly compact chassis, through a careful design study, it offers a rich I/O section with optional integrated Wi-Fi connectivity.

The new PP-9745W combines robustness and performance thanks to the aluminum chassis and the motherboard based on Intel® i5-12400 processors with low dissipation and reduced consumption.

The system ensures high performance in process speed and graphics functionality, maintaining low power consumption and silent operation thanks to the integrated active cooling system. It has standard 8GB DDR4 RAM, expandable up to 32GB. It has the possibility to mount easily replaceable M.2 PCIe SSD devices.

I/O Ports

I/O ports are placed in a protected position. A practical cable cover is supplied with the machine, which prevents unwanted access. The system is also equipped with a removable M.2 SSD.



I/O Port	Connector Type	Usage
Video Ports	1x USB DP	For 2 nd monitor
	1x HDMI	
12V in	20V DC in (130W)	
Cash Drawer	1x RJ11 (12V/24V) Cash Drawer port BIOS-managed	
USB	3x USB 3.0	
	1x USB 2.0	
LAN	1x RJ45 GigaLAN	

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Serials	2x RJ45	
	PUSB 24V / PUSB 12V /	Optional Additional I/O on Request





Chapter 3 Installation and Settings

Terminology and Tools

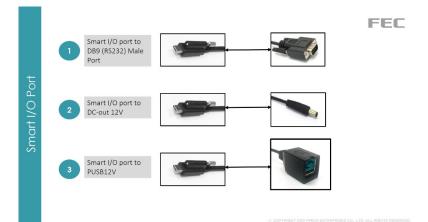
Smart DD: It's a proprietary port that can support two side-by-side Smart DD monitors. It uses a USB-C connector but is NOT backward-compatible with previous-generation USB-C (USB DP) ports. Contact your agent for more information.

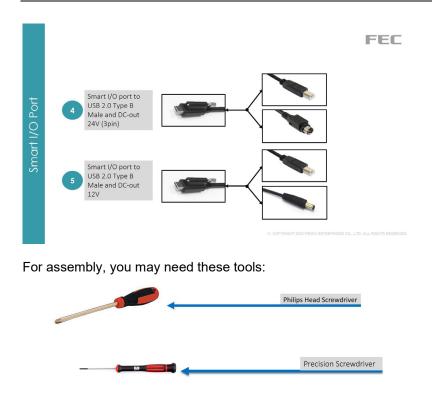
Smart DP: is a proprietary port for exclusive use by Display Smart DP. Previous generation displays, called FEC DP, can be used on this port; However, there will be an error in the control panel that cannot be fixed. It won't affect its use.

Smart I/O: It's a proprietary port that supports multiple I/O cable expansions. The relative power supply can be set in the BIOS at Advanced > Product Settings. By default, it is set to minimum. For example, the default power of RJ45 at DB9 is set to RI.

Universal I/O (UIO): it's an optional port. The customer can request it. The available ports are (1 per system):

- 1)PUSB24V,
- 2 PUSB12V,
- ③RJ45 (RS232) RI/5V/12V,
- (4)USB 2.0 Tipo A (Doppia)
- (5) Da Smart I/O a USB 2.0 tipo B maschio e DC-OUT 12V





Stand – double hinge

Note: This is a general reference assembly guide, the actual display back cover may not match your product. It will not matter to the assembly.

Tools Needed: You will need to prepare a screwdriver in order to assemble the stand.

Items Included:

Panel PC with Part A of the stand attached.

Part B of the stand

Screw x 4pcs in the accessory box.

STEP 1: Lay items on a flat surface.

STEP 2: Remove the stand cable cover by sliding it down (left image) then lift it away (right image).



STEP 3: Lift up the angle of Part A of the stand .

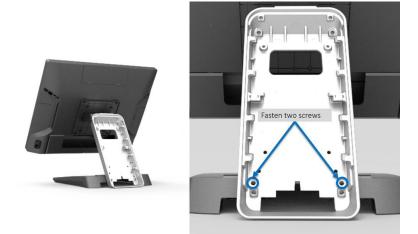


STEP 4: Align Part B of the base with Part A of the base as shown. While holding the base together with one hand. Use your hand to slightly fasten the screws . Then use the screwdriver to tightly fasten it.



STEP 5: Place the stand in the upright position (left image) then use the screwdriver to fasten the two screws (right image).

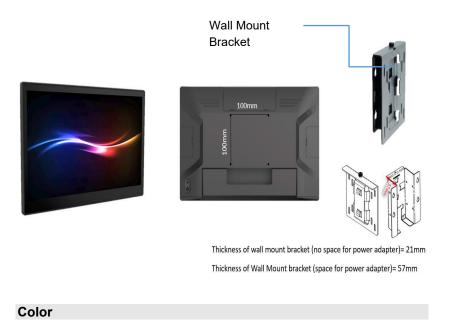
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STEP 6: Place the stand cable cover back on the stand. Then assembly is complete .



Wall Mount Bracket - optional

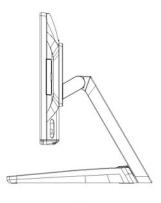




Cable Management



Adjustable Angle



0°

120°

Dimensions





Add-On Devices

Note: This is a general reference assembly guide, the actual display back cover may not match your product. It will not matter to the assembly.

Tools Needed: You will need to prepare a screwdriver in order to assemble the add-on device.

Items Included:

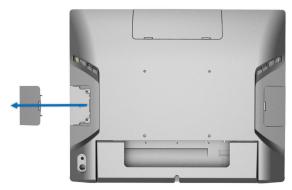
Panel PC with Part A of the stand attached.

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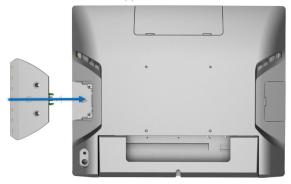
Part B of the stand

Screw x 4pcs in the accessory box.

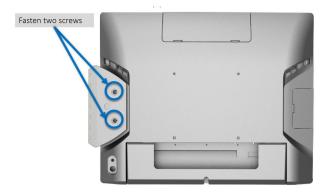
STEP 1: Remove the side cover.



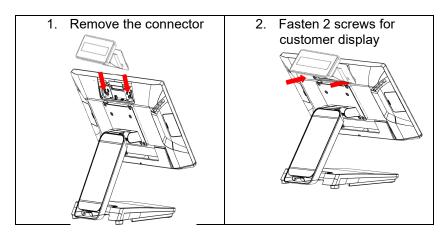
STEP 2: Connect the add-on device to the system.



STEP 3: Fasten the two screws. Complete.



Customer display installation (XP-2025)



Integrated Secondary Display

• Loosen the screw indicated in the figure and remove the cover



Connect the customer display and secure it to the display. (Make sure the COM6 port power supply is correct before connecting the VFD.)

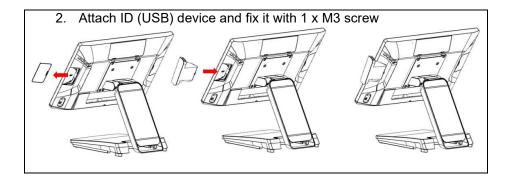


• Don't exceed the maximum tilt angle, otherwise, the internal cable may disconnect.

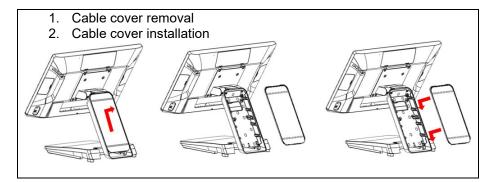


Peripheral installation

1. Remove plastic lid



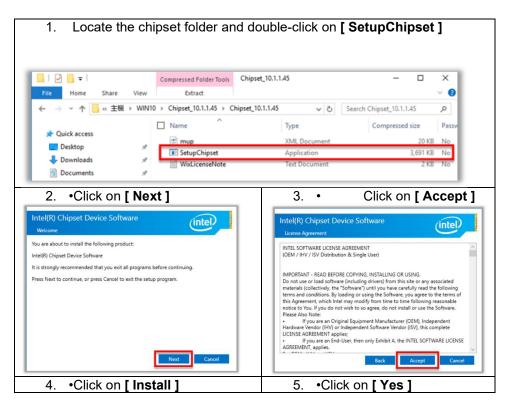
Remove/Install cable cover



Chapter 4 Driver & Utility installation and configuration For the most recent drivers go to: https://www.fecpos.com/download/download.html For the installation, follow this order:

- ①Chipset
- 2 Audio
- ③Graphics
- ④Intel® ME
- (5)Serial IO
- (6)LAN
- ⑦Sensors

1. Chipset



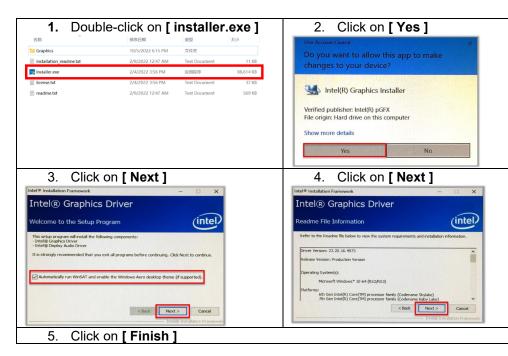
	User Account Control
tel(R) Chipset Device Software	Do you want to allow this app to make
Readme File Information	changes to your device?
Product: Intel® Chipset Device Software Product: Intel® Target FCN(Chipset: Client Platforms Date: 2015-06-03 NOTE: For the list of supported chipsets, please refer to the Release Notes CONTENTS OF THIS DOCUMENT his document contains the following sections: Overview System Requirements Contents of the Distribution Package 3A. Public and WOA Configurations	Intel(R) Chipset Device Software Verified publisher: Intel(R) Software and Firmware Products File origin: Hard drive on this computer Show more details Yes No
Back Install Cancel]
	6. •Click on [Restart Now]
tel(R) Chipset Device Software	
tel(R) Chipset Device Software	Intel(R) Chipset Device Software
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Back Install Cancel tel(R) Chipset Device Software Progress	Intel(R) Chipset Device Software Completion You have successfully installed the following product: Intel(R) Chipset Device Software
tel(R) Chipset Device Software	Intel(R) Chipset Device Software Completion You have successfully installed the following product:

2. Audio

Norme Share View Educat → ↑ • ± ₩ > WINI0 > Audio (M25 > Audio (Audie, MAS P Do you want to allow this app to	
		n make
Desktop x* (a) 0x0413 Configuration settings	Compressed size 5 X8 No. 6 Changes to your device?	5 make
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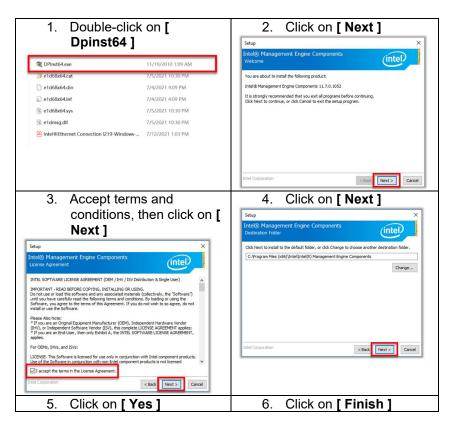


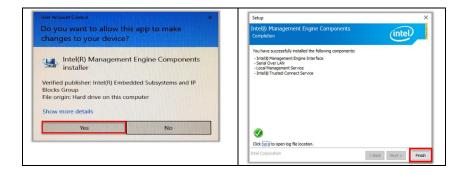
3. Graphics.



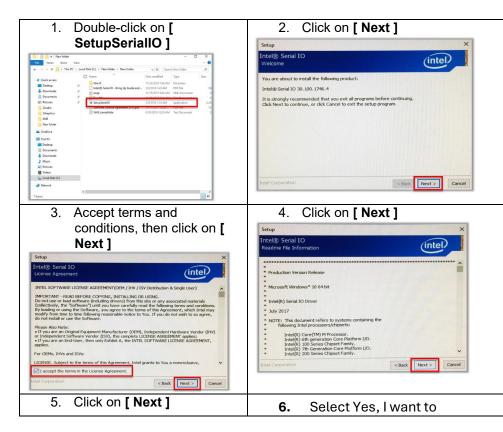


4. INTEL® ME





5. Serial IO

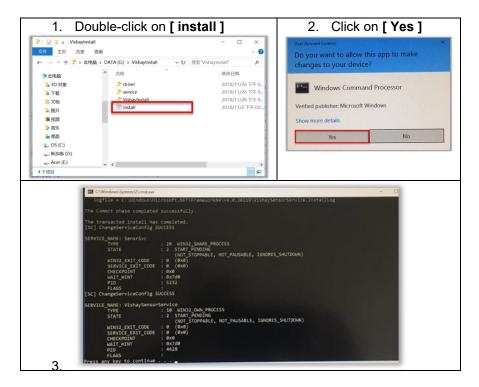


Setup Intel® Serial IO Confirmation	(intel)		w, then click on
You are about to install the following components:		[Finish]	
- Intel® Serial IO GPIO Driver - Intel® Serial IO I2C Driver		Setup	×
		Intel® Serial IO Completion	(intel)
		You have successfully installed the following	ig product:
		Intel® Serial IO 30.100.1746.4	
ntel Corporation <	Back Next > Cancel	You must restart this computer for the changes to computer now?	take effect. Would you like to restart the
		Yes, I want to restart this computer now. No, I will restart this computer later.	
		Click here to open log file location.	
		Intel Corporation	< Back Next > Finish

6. LAN

1 📴 📻 👻 l Thomas Share View	Application Tools New folder	- □ ×	User Account Control
This PC >	Local Disk (C) > New folder > New fi	ekter v 6 Search New Folder p	Do you want to allow this app to make
A Quick eccess	1 Name	Date modified Type Size * 11/6/2217.4.55 PM Configuration sett	changes to your device?
Desktop	# 0:0415	11/6/2017 4:50 PM Configuration tett	enanges to jour derice.
- Downloads	# 0x0416	11/6/2017 4:59 PM Configuration sett	
Documents	0x0418	11/6/2017 4:59 PM Configuration sett	
Pictures	 iii) 0x0419 iii) 0x0421 	11/6/2017 4:50 PM Configuration sett 11/6/2017 4:59 PM Configuration sett	InstallScript Setup Launcher Unicode
2Audio	0x0424	11/6/2017 A 59 PM Configuration sett	
Diraphics	0.0804	11/6/2017 4:59 PM Cenfiguration sett	
Able New folder	Cx0816 dets1	11/6/2017 459 PM Configuration tett 11/6/2017 459 PM Cabinet File 6	Verified publisher: Realtek Semiconductor Corp.
	data1.hde	11/6/2017 435 PM HDR File	File origin: Hard drive on this computer
CreDrive	data2	11/6/2217 4:50 PM Cabinet File	
This PC	EngLangED	11/6/2017 4:59 PM Test Document 11/6/2017 4:59 PM Test Document	Show more details
Desktop	instOpt	11/6/2017 439 PM Feb Document 11/6/2017 459 PM Text Document	
Decuments	isSetup.dl	11/6/2017 4:59 PM Application extens	
1 Music	P B setup	11/6/2517/4/56 PM Application 1	Yes No
Pictures	10 m terup	1002211 K29 MM Apprendit	
Videos	i setupies	11/6/2017 4:59 PM IRX File	
Local Disk (Ci)	i setupian	11/6/2017 4:59 PM ISN File	
Matwork	setupiliss	11/6/2017 4:59 PM ISS File 11/6/2017 4:59 PM Text Document	
3.			
	All-In-One Win The Instalished	er Installibliedd Woard for Realitek USB Ethernet Controller domo Dere Mannet all Frank Rozek ISB Ethernet Controller Al & One Windows Diver on To contrave, das Rozek	

7. Sensors



8. Cash Drawer

Contact the support staff and request the "FEC Guide for SDK Integration with the Cash Drawer".

9. BIOS Introduction

To access the BIOS, press the key when the device is rebooting.

Enable/Disable ambient light and proximity sensor on the BIOS

To use the BIOS, you can use the touch panel.

	and the second se	Esc	
BIOS Information BIOS Vendor Core Version Compliancy BIOS Version Build Date and Time Access Level Board Information	American Megatrends 5.25 UEFI 2.8: PI 1.7 8032 12/16/2022 11:40:20 Administrator	Det System Date. Use Tab to switch between Date elements.	Digital Keypad
Board ID Processon Information Processon Type Speed Total Memory Memory Frequency	FALSH AlderLake DT 12th Gen Intel(R) Cone(TH) 13-12100TE 2100 HHz 8152 HB 2667 HHz	**: Select Breen 11/21124: Select Tee Deter/G01 Click: Select *-: Change Out. 12: Onereal Holo 12: Previous Volues	Hot Keys and
System Date System Time	(Hon 02/06/2023) (10:32:36)	f3: Optimized Defailts Mai Save B Exit ESC/Right Click: Exit	Control Instructions
		ACC 1011	
Weston	2.22.1282 Copunisht (C) 2		
	Antio Seton - ANT	7	в
Main Advanced Chipot Accurity ACI antine CPU Configuration Let Configuration Let Configuration Resorts State: Configuration Resorts State: Configuration Server Configuration Server Configuration Server Configuration Server Configuration Thested Constiguration Product Serversion	Antio Seton - ANT	Ess mere Datten ACT Parameters.	Serial Numbers of components

Step 1: Boot the system

Step 2: Press the key during boot to enter the BIOS Step 3: On Advanced > Sensor Configuration click Disabled to turn it off, Sensor 1 to activate the proximity and ambient light sensor.



Note: Factory setting is set on "Enabled".

Chapter 5 Software Installation

Device code example

Cash Drawer

```
_____
public void CashDrawer_1_Open_click(View view) {
try {
Intent intent = new Intent("
X.intent.action.SET_BOX_OUTPUT1_HIGH");
mContext.sendBroadcast(intent);
Thread.sleep(200);
Intent intent1 = new Intent("
X.intent.action.SET_BOX_OUTPUT1_LOW");
mContext.sendBroadcast(intent1);
} catch (Exception e) {
Log.d(TAG, "Failed to send broadcast.");
}
public void CashDrawer_2_Open_click(View view) {
trv {
Intent intent = new Intent("
X.intent.action.SET_BOX_OUTPUT2_HIGH");
mContext.sendBroadcast(intent);
Thread.sleep(200);
Intent intent1 = new Intent("
X.intent.action.SET_BOX_OUTPUT2_LOW");
mContext.sendBroadcast(intent1);
} catch (Exception e) {
Log.d(TAG, "Failed to send broadcast.");
ł
```

COM Ports

```
COM1 = /dev/ttyUSB0
 COM2 = /dev/ttvUSB1
 COM3 = /dev/ttyUSB2
 COM4 = /dev/ttyUSB3
 COM5 (LCM/VFD) = /dev/ttyS1
-----
int intSerialPortHandle = -1; int intReturnCode = -
1:
private int intBaudRate=9600;
private String
strTestString="testStringtestString";
String strttyUSBPath;
SerialPort sp;
private void SleepMiniSecond(SerialPort spThread,
int minSecond)
try {
spThread.sleep(minSecond);
dump trace("SLEEP MSEC="+ minSecond);
} catch (InterruptedException e) {
e.printStackTrace();
ł
private boolean RS232_Test
int intDataReceivedLength=0; sp = new SerialPort();
strttyUSBPath = "/dev/ttyUSB0"
intSerialPortHandle =
sp.open(strttyUSBPath,intBaudRate);
byte[] btyVersion_msg_received = new byte[256];
Arrays.fill( btyVersion_msg_received, (byte) 0 );
intReturnCode =
sp.write(intSerialPortHandle,strTestString.getBytes
());
```

```
sp.setListener(splistener);
intDataReceivedLength = sp.getDataReceivedLength();
int nRetry=0;
while (intDataReceivedLength == 0)
{
SleepMiniSecond(sp, 1000);
intDataReceivedLength = sp.getDataReceivedLength();
nRetry++;
if (nRetry == 2) break;
}
if ( intDataReceivedLength>= 0) {
btyVersion_msq_received =
Arrays.copyOf(sp.getBytDataReceived(),intDataReceiv
edLength);
}
sp.close(intSerialPortHandle);
sp = null;
boolean testResult = false;
testResult = (intDataReceivedLength > 0 )? true:
false; return testResult;
}
```

Chapter 6 Hardware

RAM Access

Note: This is a reference assembly guide, actual display dimensions may vary; however, they won't affect assembly. Make sure the product is turned off.

Tools Needed: Prepare a screwdriver.

STEP 1: Place the Panel PC face down on a flat surface. Using a precision screwdriver, unscrew the screw.



STEP 2: Remove back cover



STEP 3: Lift the panel, which will automatically release the FFC sensor cable.



STEP 4: Release the RAM by pressing on the metal hooks. It will rise, then you can disconnect it by pulling it out at a 45-degree angle.



Add M.2 from the tray

Note: This is a general reference assembly guide, the actual display back cover may not match your product. It will not matter to the assembly. Make sure the system is off before removing or installing the M.2 tray from the system. This system does not support hot plug of the storage device.

Tools Needed: You will need to prepare a precision screwdriver in order to assemble the M.2.

Items Included:

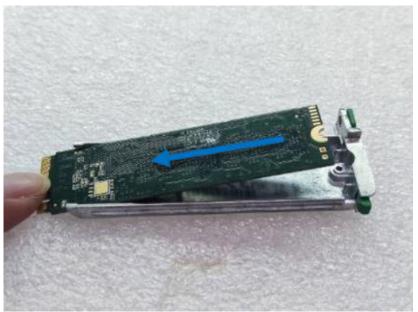
Thermal pad in the accessory box.

M.2 Tray with Screw x 1

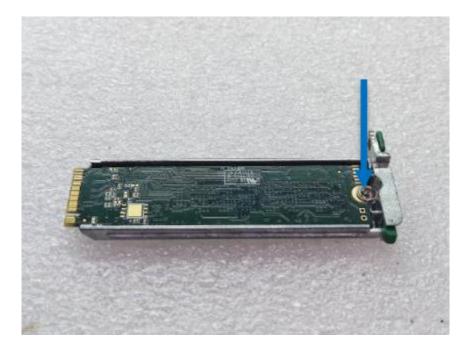
M.2 (PCIe Gen III) x 1 (This can be purchased from FEC or otherwise)

STEP 1: Get thermal pad from the accessory box. Remove the plastic and place the thermal pad on to the controller.

STEP 2: Slide the M.2 into the tray.

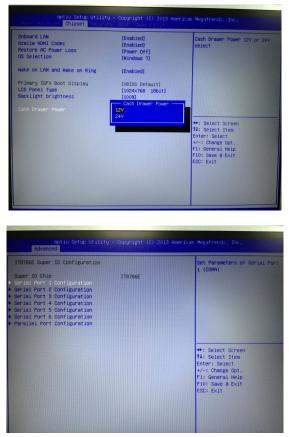


STEP 3: Fasten the screw. Complete. Note: Make sure the system is off when inserting the M.2 tray into the socket.



POWER SETTING (COM)

You may select the power (5v / 12v) of COM in BIOS



Make sure the device voltage matches the power setting before connection

LED Backlight Brightness



• 5 backlight brightness levels (5, 25, 50, 75, 100%) can be selected through the BIOS.

Cash Drawer

Only on PP Series

- Please make sure the voltage and cable pin assignment of your cash drawer matches the cash drawer port on PP-9735W.
- You may find the jumper setting and pin definition in M/B J1900 user manual.
- Please refer to trouble shooting if the cash drawer cannot be detected by PP-9745W



Open drawer 1 (default):

port[openaddr] <= open1 wait(sleep(ms)) port[openaddr] <= close

Open drawer 2

port[openaddr] <= open2
wait(sleep(ms))
port[openaddr] <= close</pre>

Stato:

StatusValue <= port[status] and statusmask

Parameters inside cashdrawer.ini file

openaddr=a04 status=a05 sleep=200 open1=40 open2=80 close=00 statusmask=01 Chapter 7 Operating System Recovery

Bootable key creation with Aomei Backupper 6.7.0

Create a boot key using the Rufus utility, available at https://rufus.ie/it/, and download the portable version. Launch Rufus with the USB stick to be formatted already inserted, select the Backupper_Std_670_gen22.iso file

Dispositivo/unità					
TRANSCEND (G:) [7.6GB]					
Selezione boot					
Backupper_Std_gen22.iso		•	\odot	SELEZIONA	-
Schema partizione		Sistema dest	inazion	e	
		Farmers ware			
Opzioni formattaz Etichetta volume TRANSCEND		BIOS (o UEF		Ϋ́	*
 Visualizza opzioni avanzate u Opzioni formattaz Etichetta volume TRANSCEND File system 		Dimensione	cluster	<u>.</u>	*
 Visualizza opzioni avanzate u Opzioni formattaz Etichetta volume TRANSCEND 			cluster	iito)	*
 Visualizza opzioni avanzate u Opzioni formattaz Etichetta volume TRANSCEND File system FAT32 (predefinito) Visualizza opzioni avanzate formation 	ione –	Dimensione 4096 byte (p	cluster	iito)	*
 Visualizza opzioni avanzate u Opzioni formattaz Etichetta volume TRANSCEND File system FAT32 (predefinito) Visualizza opzioni avanzate formation 	rione — * ormattazione	Dimensione 4096 byte (p	cluster	ito)	*
 Visualizza opzioni avanzate u Opzioni formattaz Etichetta volume TRANSCEND File system 	ione –	Dimensione 4096 byte (p	cluster	iito)	3

Confirm operation with Start/Launch.

Starting Operating System Recovery

Insert the USB stick into the system to be restored, when turning it on press **F7** for the Boot device and select:

• UEFI: USB name

Once the AOMEI_Backupper graphical interface has started, close the screen with the offer, select the **Restore and Image File Selection** task.



Browse external disk and select the "WTC6E_W10_Pro_21H1_*lta/Eng*" file, confirm with **Open**.

AOMEI Backupper Standar	d						
œ	O Open						
Base	Look in:	2022		- • • • •			
CC Backup	N	ame GDT-9700_CM11_W10_L ¹	Date m		k		
Sincronizzazione	This PC					gine	
Ripristina							
¢	< Fi		D_CM11_W10_LTSC	-	> Open		
	and the second second second second second	es of type: mage(".au		-	Cancel		
Strumenti							*

Check that "Restore entire disk" is checked, click on the Disk 0 box, it turns green, and confirm with **Next**.

AOMEI Backupper Standard		
ा <u>द</u>	Informazioni sull'immagine Selezonaglieiementi da file immagine per ripristinare.	
C) Backup	Riphistina Finitero disco Riphistina una partistone nel disco	2022-01-14 12:34:20 *
Sincronizzazione	Discoli 1 C CP1 d Bios 18 1 C 232.3900 499 100 16.4 222.2800 MeFs	
Col Reputatione		
Cione		
نگ Strumenti		
		Indietro Avanti >>

Check that Disk0 is highlighted (green), continue with **Next**, and confirm the overwriting with **OK**.

AOMEI Backupper Standard			
Base	Ripristino del Disco Selezionare la destinazione per l'immagine del disco che si desidera ripristinare.		
CC Backup	O Decod C C C C C C C C C C C C C C C C C C C	×	
Sincronizzazione	Dopo aver eseguito l'operazone, le partizoni esitenti sul disco di destinazione verranno sovrascitte o cancelte, quind, se ci sono akuni dati importanti sul disco di destrazzone, consiglario di effettuare un backup. Sei skuro di veler continuare lopenazione?		
Ripnstina	Cancella		
Clona			
Strumenti			

On the final screen, check **SSD Alignment** and start the operation with **Start recovery >>**

AOMEI Backupper Stand	ard		=
⊡® [Sommario di funzionamento Indicare le operazioni che verranno eseguite.		
C Backup			
Sincronizzazione	Disco di origine Disco: 0 (GPT) Dimensione Disco: 232,8968	Disco di Destinazio Disco: 0 (GPT) Dimensione Disco: 232.	
C Ripristine			
Clona			
Strumenti			
ß	Modifica Partizioni 🗹 Alineamento SSD 🕘 🗖 Ripristino U	Iniversale 🧰 😡	Indietro Inizia ripristino »

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With the restore operation in progress, click on the cogwheel and check **When finished** (it will go out), confirm with **OK**.

AOMEI Backupper Standard		= :
	50%	
	Impostazioni X	
C		
Ripristina		
	🗹 Al termine 🛛 si spegnerà 🚽	
	Cancella	
0		
v		× Cancella

Once the activity is finished, the PC will turn off. (disconnect external USB drives)

End of Procedure

When you turn it back on, the system will start with the initial Windows configuration, with the request to select country - language, etc...

Chapter 8 Technical features

General				
Processor	Intel® Core i5-12400			
RAM	8GB / 32GB (Factory) / 1 RAM Slot			
Power Supply	External 20V / 130W			
Integrated Storage	SSD NVMe from 128 Gb to 1 Tb			
Speaker	2 x 2 W Integrated			
Mounting	VESA 100 ready Optionally available wall brackets also with power supply support			
Chassis	Die-cast aluminum chassis			
Audio	Realtek ALC233			
Network	GigaLAN			
WiFi	Wi-Fi 5 (802.11 AC) with Optional BT			
ТРМ	TPM 2.0			
Fanless	Passive heat dissipation			
	Video			
Graphical Chipset	Intel® UHD graphics 730			
Display	15,6" (16:9), 1920x1080 TFT FHD			
Secondary Display	Optional 10"/15"/15,6"			
Optional Accessories	Double-hinge table base, add-ons that can be integrated on the display side			
Brightness	300 Nits			
Contrast Ratio	-			
Backlighning-MBTF	-			
Touch	Capacitive 10 contemporary touches			
I/O Ports				
Video	1x USB DP 1x HDMI			
Ethernet	1x RJ45 GigaLAN			
USB	1x USB 3.0 3x USB 2.0			
СОМ	2x RJ45 1x RJ11 12/24 VDC			
Audio	-			
Power Supply	12 VDC Power Supply			
Other	-			
Optional Addition	onal I/O (scheduled orders only) (1 of 4 options)			
USB	1x PUSB 24V 1x PUSB 12V			

	2x USB 2.0 (2x Slots)			
RS232	1x RJ45 (COM) RS232			
Dimensions and Weight				
Dimensions (L x P x A)	Panel PC 15,6": 365 x 34 x 234 mm With base: 365 x 250 x 290 mm			
Weight	Approx. 4 Kg with Base			
	Quality			
Temperature	Operation: 0°C ~ 40°C (32°F ~ 104°F) Storage: -20°C ~ 60°C (-4°F ~ 140°F)			
Relative Humidity	-			
Vibration Range	-			
IP	IP65 on front panel			
Certifications	ISO 9001:2015 DESIGN AND PRODUCTION OF PERSONAL COMPUTERS, TOUCH DEVICES, AND ACCESSORIES FOR INDUSTRY AND COMMERCE (IAF 19) EMC: EN 55022 EN 55032:2015+A11:2020 EN 61000-3-2:2019 EN 61000-3-2:2019 EN 61000-3-3:2013+A2:2021 EN 55035:2018/A11 IEC 61000-4-2:2008 IEC 61000-4-3:2020 IEC 61000-4-5:2014+A1:2017			
Warranty	12 months FEC SWAP24 included in the price			
Compatible Operating Systems	Windows IoT, Windows 11, Linux Ubuntu			
Optional Warranty	Optional SWAP 24 or on-site warranty up to 36 months			



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