**Rev.01 USER GUIDE PP SERIES** mod. PP-9735W EC 

ITALIA

#### PP SERIES | PP-9735W

User Guide Version 01 Date May 2025

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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-9735W
2	Base to assemble
3	AC Cable
4	x1 RJ-45 to D-sub9 Cable
5	20V 90W 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 10th generation Intel® Celeron processors, it offers high performance with low power consumption. The system can be equipped with high-speed fanless SSD disks, which eliminate moving mechanical parts and increase the overall reliability of the solution.

The 15.6" adjustable true-flat LCD is equipped with 10-touch capacitive touch screen technology, enhanced even with work gloves or capacitive touch pens. The front panel, IP65 certified, is resistant to dust and liquids.

The rear-panel electronics allow the use of the Panel PC both by exploiting the robust and sturdy base and for wall/arm placement thanks to the VESA standard attachment located on the back of the PC.

The high brightness tilting monitor - 300nits - allows the most suitable use depending on the height and lighting of the installation point, even in places exposed to direct sunlight without losing visibility of the contents; the ambient light sensor also automatically adjusts the screen brightness based on the surrounding environment. Designed to reduce overall dimensions with a decidedly compact chassis, through a careful design study, it offers a rich I/O section with optional integrated Wi-Fi connectivity and numerous accessories on request.

#### 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 <sup>nd</sup> monitor
	1x HDMI	
12V in	12V DC in ( 90W )	
Cash Drawer	1x RJ11 (12V/24V) Cash Drawer port BIOS-managed	
USB	1x USB SMART	
	1x USB 3.0	
	3x USB 2.0	
LAN	1x RJ45 GigaLAN	
	2x RJ RS232	
	PUSB 24V / PUSB 12V / RS232 / USB 2.0	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,
- ④USB 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).

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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).



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



## Wall Mount Bracket - optional



Thickness of Wall Mount bracket (space for power adapter)= 57mm

Color



## **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.

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

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## 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:

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

## 1. Chipset





2. Audio
----------

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	□ Name ^	Type	Compressed size	Pa A	be you mane to anoth and app to mane
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Desktop	x 6] 0x0413	Configuration settings	6 KB	Nc	
S Downloads	# 61 0x0414	Configuration settings	5 KB	Nc	
R Documents	a (i) 0x0415	Configuration settings	6 KB	Nc	
Pictures	a) 0x0416	Configuration settings	5 KB	Nc	
Newfolder	0 0x0419	Configuration settings	6 KB	Nc	InstallScript Setup Launcher Unicode
- Ivew reider	(a) 0x0421	Configuration settings	6 KB	Nc	
ConeDrive	6) 0x0424	Configuration settings	6 KB	Nc	
This BC	(p) 0x0804	Configuration settings	5 KB	Nc	Varified publishen Pastak Semisenduster Com
- Inore	(g) 0x0816	Configuration settings	6 KB	Nc	verned publisher. Realter semiconductor corp.
Desktop	ChCfg	Application	35 K.D	Ne	File origin: Hard drive on this computer
Decuments	data1	Cabinet File	5,989 KB	Nelli	
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A Music	data2	Cabinet File	1 KB	No	Show more details
E Pictures	[6] ISSetup.dll	Application extension	701 KB	Ne	
Videos	] layout.bin	BIN File	1 KB	Ne	
4 Local Disk (C)	Ni RiEsUed di	Application extension	465 KB	Ne	Mag No.
	Setup	Application	512 KB	No	TES NO
Network	() setup	Configuration settings	288	NC	
	setupinx	INX File	361 KB	NC	
	L] setupusn	LOCK FILE	59 KB	INC.	
	L] setupuss	130 File	1 KB	1	
		130 FBR	1 K8	THE WE	
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				100	
		-			
3	Click [ Novt	1			A Click I Vos I want to rost
5.		1			
	-	-			
					now [ Finish ]



## 3. Graphics.





### 4. INTEL® ME





#### 5. Serial IO





### 6. LAN

Home Sheet	Apprivation Tools New folder	- 🗆 ×	User Account Control
This	IC > Local Disk (C) + New folder > New folder	w & Search New folder _P	Do you want to allow this app to make
	Ti Name	Date modified Type Size *	also and the second design 2
A Quick access	(tt) 0x0414	11/6/2017 4:55 PM Configuration tett	changes to your device?
Desktop	# ( <u>1</u> ) 0:0415	11/6/2017 4:59 PM Cenfiguration sett	
Downloads		11/b/2017 4/39 MM Contriguention setting	
Documents	A 0.00119	11/6/2017 4:50 PM Configuration sett	
F Pictures	Co0421	11/6/2017 4:59 PM Configuration sett	InstallScript Setup Launcher Unicode
2Audio	iii) 0x0424	11/6/2017 4:59 PM Configuration sett	
Disphics	@ 0x0804	11/6/2017 4:59 PM Configuration sett	
-4ME	(a) 0x0816	1U6/2017 450 PM Configuration sett	Verified publisher: Realtek Semiconductor Corp.
New folder	deta1	11/0/2017 6:39 PM Cabinet File 0, 11/0/2017 6:39 PM Cabinet File 0, 1	File origin: Hard drive on this computer
de OneDrive	data2	11/6/2017 459 PM Cabinet File	
This PC	EnglangiD	11/6/2017 4:59 PM Text Document	Characterized and the
Desktop	InstCtrl	11/6/2217 456 PM Test Document	Show more details
Documents	InstOpt	11/6/2017 4:59 PM Test Document	
S Downloads	E Strup.d2	11/b/2017 4:59 PM Application intern	Max
A Music	12 Stop	11/6/2517 AS9 PM Application 1	Tes INO
Fictures	a samp	TOP2CITY COMPANY COMPANY OF T	
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#### 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 <DEL> 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.

A STATE OF	TTA DOOL SAVE & EXIT	CSL	
BIOS Information BIOS Vendor Core Version Compliancy BIOS Version Build Date and Time Access Level Board Information Board ID	American Megatrends 5.25 UEFL 2.8: PI 1.7 A032 12/16/2022 11:40:20 Administrator FALSM	Det System Date, Use Tab to suitch between Date elements.	Digital Keypad
Processon: Information Processon Type Speed Total Henory Henory Frequency System Date	AlderLake DT 12th Gen Intel(R) Cone(TH) 13-12100TE 2100 H42-12100TE 8152 H6 2667 Hfz [Hon 0t/06/2023]	Wei Balaci Boreen Hirottaki Balaci Isaa Toterotta Casa isaaci Ar-Comerci Balaci Rii Beensa Heija Rii Porvison Valaas Rii Botlahad belasta Ari Shee Butt	Hot Keys and Control Instructions
		TOP2 AMI	
Vers	inn 2.22.1282 Ennwright (C) 2		
	inn 2.27.1282 Convright (C) 2		<b>B</b> 0
Werd	nn 7.72 1782 congright (C) 3 Actio Setup - AMI y Boot, Save & Exit	Esc :	ES o
Mote Advanced Chapter Security Adv1 Setting OU Configuration PC Configuration PC Configuration PC Configuration PC Configuration PC Security Security PC Security Security Security Security Configuration Storage Configuration Storage Configuration	APTO SALO ANT APTO SALO - ART ( BOST BAY: & CIT	Esc IIII Suite 402 Proseters	B
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Step 1: Boot the system

Step 2: Press the <DEL> 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.



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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/ttyUSB1
 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-9735W



#### Open drawer 1 (default):

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

#### **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	
Constant and a second sec		BIOS (n UFF	I CSM)		÷
MBR Visualizza opzioni avanzate u Opzioni formattaz Etichetta volume TRANSCEND	nità			×	
MBR Visualizza opzioni avanzate u Opzioni formattaz Etichetta volume TRANSCEND File system	ione –	Dimensione	cluster	~	
MBR Visualizza opzioni avanzate u Opzioni formattaz Etichetta volume TRANSCEND File system FAT32 (predefinito)	viinità	Dimensione 4096 byte (p	cluster	ito)	~
MBR Visualizza opzioni avanzate u Opzioni formattaz Etichetta volume TRANSCEND File system FAT32 (predefinito) Visualizza opzioni avanzate fe	vinità ione –	Dimensione 4096 byte (p	<b>cluster</b> predefin	iito)	*
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MBR Visualizza opzioni avanzate u Opzioni formattaz Etichetta volume TRANSCEND File system FAT32 (predefinito) Visualizza opzioni avanzate fo Stato	vinità ione – v ormattazion	Dimensione 4096 byte (p e	cluster	ito)	*

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 Standard							
C#							
Base	Open						
0000	Look in	2022		• • •	* 🗊 •		
Backup	Libraries	Name	M11_W10_LTSC.ad	Date modified 1/14/2022 12:3.	Type ADI File		
_ <b>t</b> ⊅							
Sincronizzazione	Share/NAS					gine	
Ripristina							
		<					
<u>a</u>		File name:	GDT-9700_CM11_W1	D_LTSC	Open		
Clona		Files of type:	[image(*.adi;*.afi)		Cancel		k
Strumenti							

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

AOMEI Backupper Standard		
· 선	Informazioni sull'immagine Selezionaglielementi da file immagine per ripristinare.	
C Beckup	Repristina l'Intero disco     Repristina una partizione nel disco	2022-01-14 12:34:20 *
Sincronizzazione	Desceid         *1 R         *1         C           GPT 0 Black         *1 R         *1         C           232,990B         499,100,16.C         232,2808 Nets	
Col.		
Cone		
Strumenti		

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

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AOMEI Backupper Standard			<b>a</b>
Base	Ripristino del Disco Selezionare la destinazione per l'immagine del disco che si desidera ripristinare.		
	O Decot Contraction of the second of the sec	×	
C Sincronizzazione	Dopo aver eseguido foperazione, le particioni esistenti sul deci di detimazione veranno sovisiscitte o cancelate, quadi, se ci sino alcuni dali reportanti sul disco di detimazione, consplamo di effettuare un backup. Sei sicuro di voler continuare l'operazione?		
Ripristina Clona	Cancello		
Strumenti			
		Indietro	Avanti »

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

AOMEI Backupper Stan	dard		
⊡® Base	Sommario di funzionamento Indicare le operazioni che verranno eseguite.		
C Backup			
Sincronizzazione	Disco di origine Disco: 0 (GPT) Dimensione Disco: 232.89GB	Disco di Destinaz Disco: 0 (GPT) Dimensione Disco: 232	one .8968
Cd Ripristina			
Ciona			
Strumenti			
e	🕻 Modifica Partizioni 🛛 Alineamento SSD 🔮 🔲 Ripristin	o Universale 🧰 🍘	Indietro Inizia ripristino »

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

AOMEL Backupper Standard		=
	6	
	50%	
Ripristina	Impostazioni 🔪 🗙	
Clona	🕑 Al termne 🛛 si spegnerà 👘	
	Cancella OK	

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® Celeron Quad Core J6412			
RAM	8GB / 32GB (Factory) / 1 RAM Slot			
Power Supply	External 20V / 90W			
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			
Display	15,6" (16:9), 1920x1080 TFT FHD			
Secondary Display	Optional 10"/15"/15,6"			
<b>Optional Accessories</b>	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 RJ RS232 1x RJ11 12/24 VDC			
Audio	-			
Power Supply	12 VDC Power Supply			
Other	1x USB SMART			
Optional Additional 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)	368 x 315 x 272,5 mm (Panel PC with Base)			
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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