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MOBILITY



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YUNO C



USER MANUAL

Copyrights

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Liability Disclaimer

In no event will the manufacturer be liable for direct, indirect, special, incidental, or consequential damages arising out of the use or inability to use the product or documentation, even if advised of the possibility of such damages.

Regulatory Information

FCC Notice



This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the Federal Communications Commission (FCC) Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If

this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio or television technician for help.

NOTE: THE MANUFACTURER IS NOT RESPONSIBLE FOR ANY RADIO OR TV INTERFERENCE CAUSED BY UNAUTHORIZED MODIFICATIONS TO THIS DEVICE. SUCH MODIFICATIONS COULD VOID THE USER'S AUTHORITY TO OPERATE THE DEVICE.

CE Notice



This device complies with **EMC Directive 2014/30/EU** and **“Low Voltage Directive”** issued by the Commission of the European Community.

UL Notice



This manual refers to UL certified products and conforms to UL 62368-1, 2nd Edition, 2014-12-1, CAN/CSA-C22.2 No. 62368-1-14 and IEC 62368-1:2014 STANDARD FOR Information Technology Equipment - Safety - Part 1: General Requirements.

WEEE Notice



The **WEEE** mark applies only to countries within the European Union (EU) and Norway.

This appliance is labeled in accordance with **European Directive 2002/96/EC** concerning **waste electrical and electronic equipment (WEEE)**. The Directive determines the framework for the return and recycling of used appliances as applicable throughout the European Union. This label is applied to various products to indicate that the product is not to be thrown away, but rather reclaimed upon end of life per this Directive.

CAUTION :

Risk of Explosion if Battery is replaced by an incorrect Type.

Dispose of Used Batteries According to the instructions.

Safety

IMPORTANT SAFETY INSTRUCTIONS

To disconnect the machine from the electrical Power Supply, turn off the power switch and remove the power cable plug from the wall socket. The wall socket must be easily accessible and in close proximity to the machine.

Read these instructions carefully. Save these instructions for future reference.

Follow all warnings and instructions marked on the product.

Do not use this product near water.

Do not place this product on an unstable cart, stand, or table. The product may fall, causing serious damage to the product.

Slots and openings in the cabinet and the back or bottom are provided for ventilation; to ensure reliable operation of the product and to protect it from overheating. These openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should never be placed near or over a radiator or heat register, or in a built-in installation unless proper ventilation is provided.

This product should be operated from the type of power indicated on the marking label. If you are not sure of the type of power available, consult your dealer or local power company.

Do not allow anything to rest on the power cord. Do not locate this product where persons will walk on the cord. Never push objects of any kind into this product through cabinet slots as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.

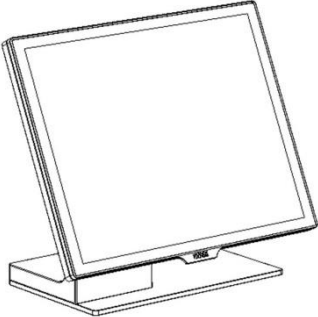
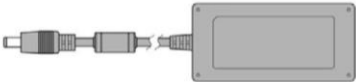
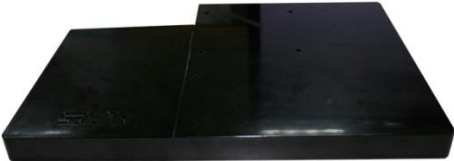
Ensure that the device connects to a socket/outlet with ground/earth connection.

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Item Checklist

1.1 Standard Items

	
a. System : YUNO-C151 & YUNO-C156	
	
b. Power Adapter (65W)	c. Peripheral Adapter
	
d. System Cover	e. Quick Start Guide

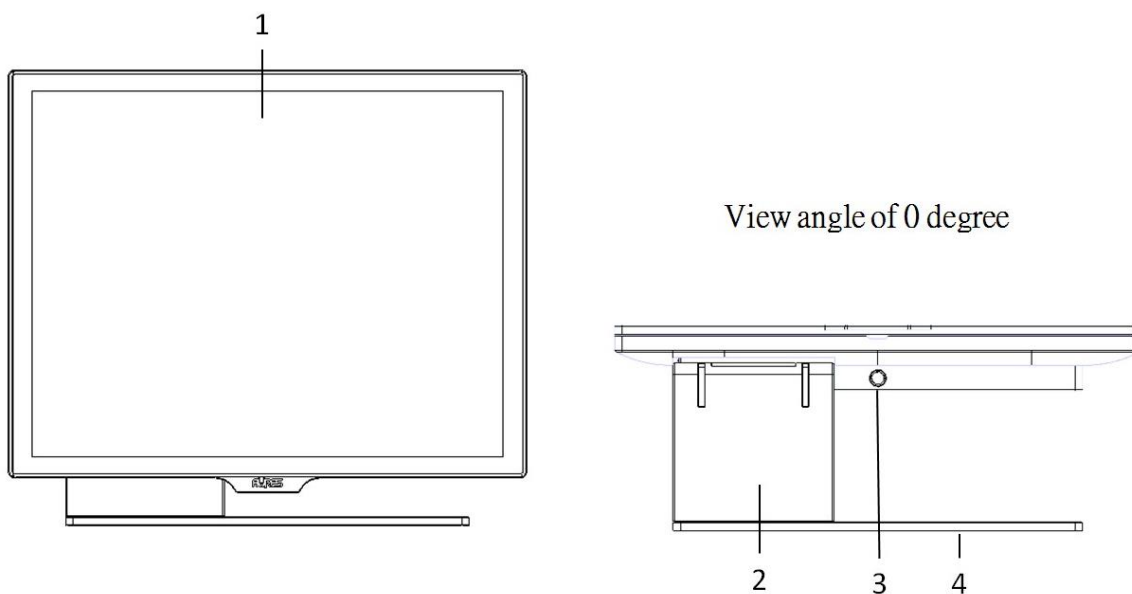
1.2 Optional Items

YUNO-C supports full range of peripherals as listed below.

Model #	Description
ART-03259	YUNO-VFD RS-232 interface Attachment-type (integrated) Customer Display
ART-03260 ART-03269	YUNO-2NDLCD10.1 & YUNO-2NDLCD10.1 Touch USB interface Attachment-type (integrated) Second Display (non-Touch and Touch models)
ART-03384	YUNO-MSR 3-Track USB Keyboard HID Attachment-type (integrated) Magnetic Stripe Reader
ART-05809	YUNO-SCANNER2D USB interface Attachment-type (integrated) 2D Scanner
ART-03539	YUNO-DALLAS USB Keyboard and USB/COM interface Attachment-type (integrated) Dallas Key Reader
ART-03924	YUNO-ADDIMAT USB Keyboard and USB/COM interface Attachment-type (integrated) Addimat Key Reader
ART-05266 ART-03335	RS232 CABLE-50CM & RS232 CABLE-100CM RJ50-DB9 COM cables

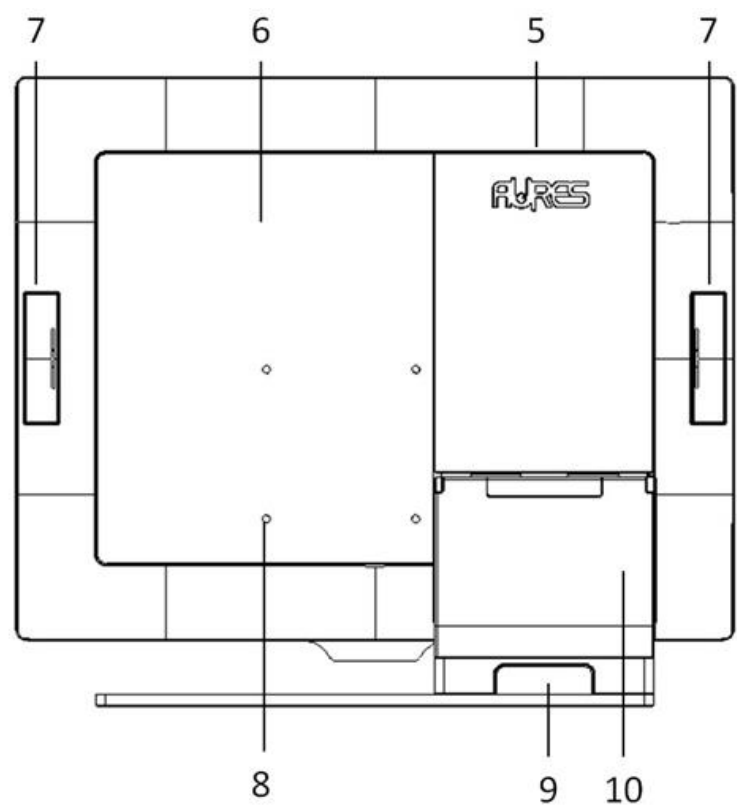
2. System View

2.1 Front View



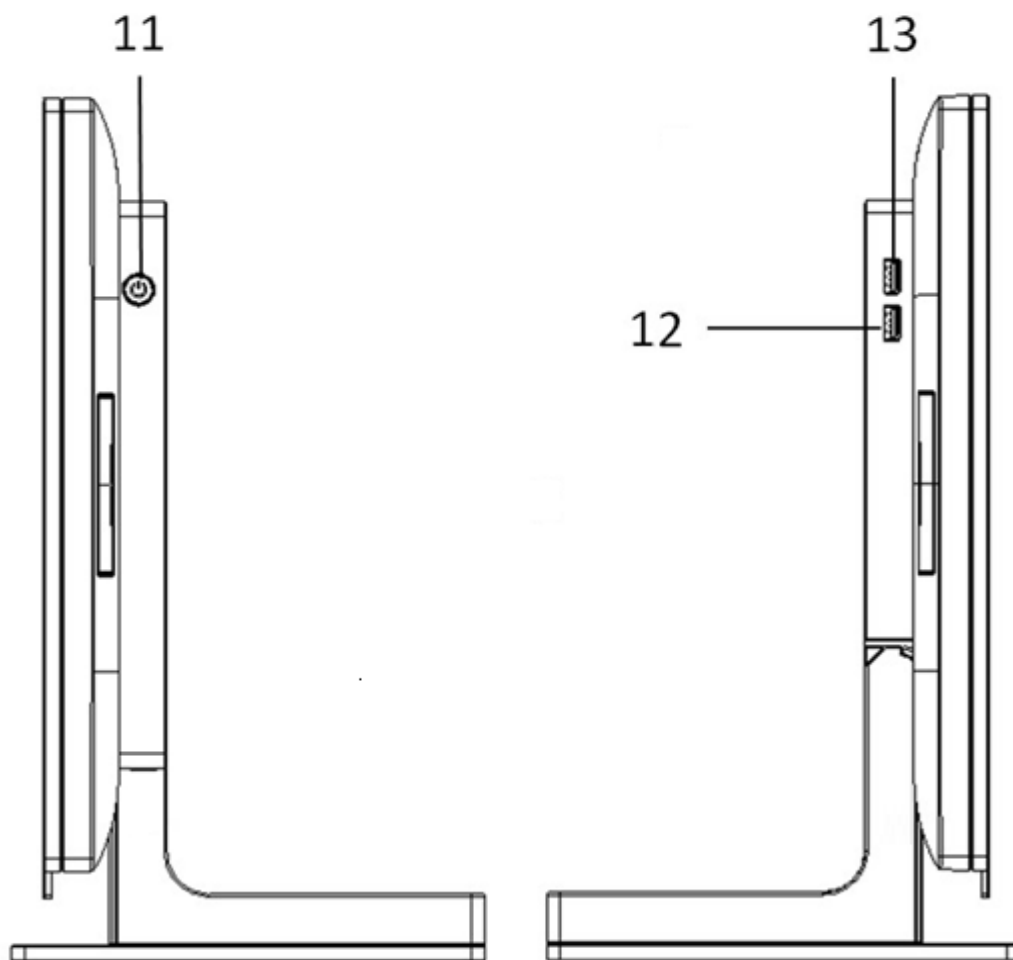
Number	Description
1	Bezel Free Panel PC
2	L-Stand
3	System Cover Release Button
4	Base Plate

2.2 Rear View



Number	Description
5	Attachment-type Customer Display (YUNO-VFD) service door
6	System Cover
7	Service door for peripherals
8	VESA mount (75mm x 75mm)
9	Rear Side Cable service door
10	L-Stand Cover

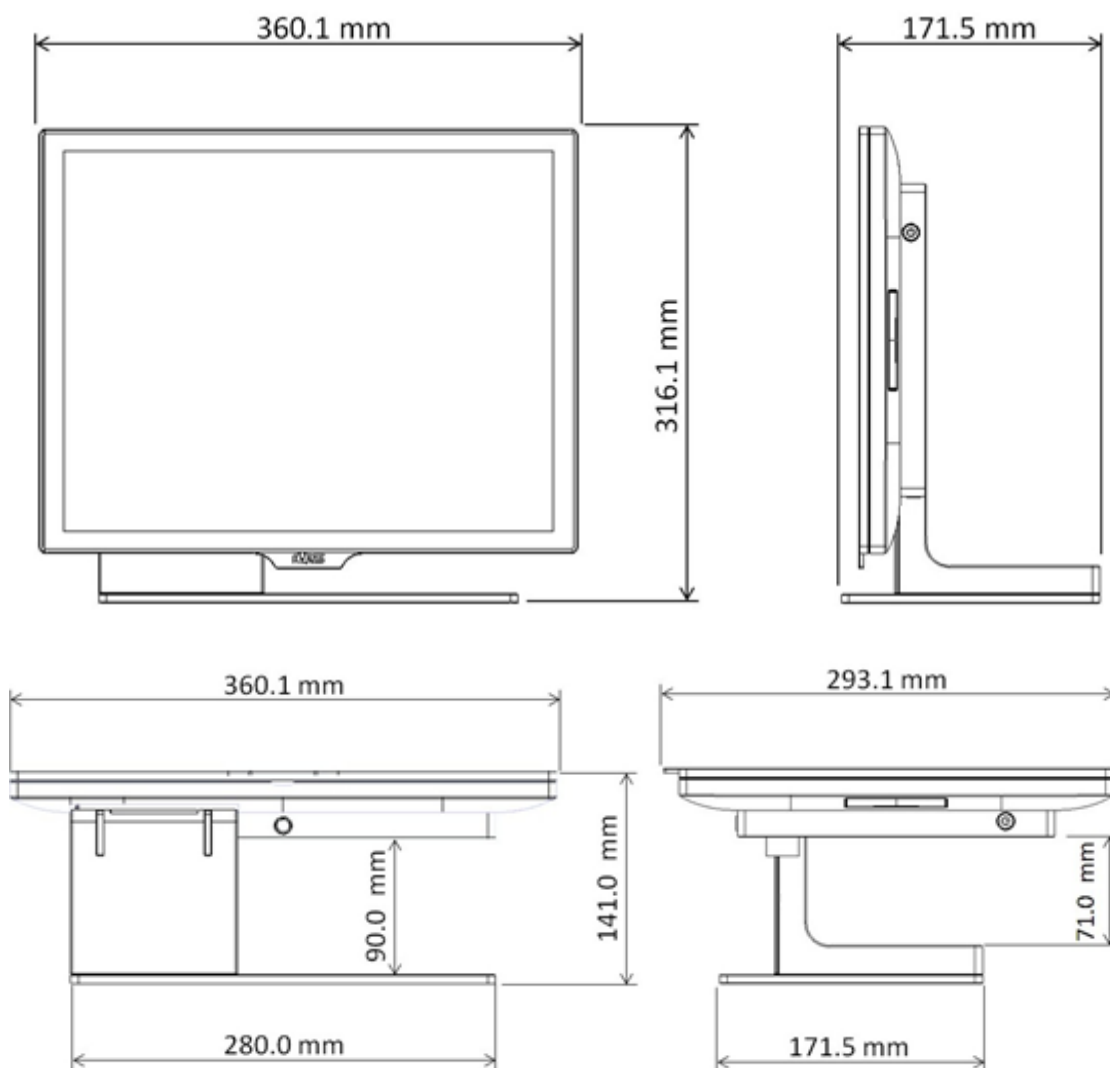
2.3 Side View



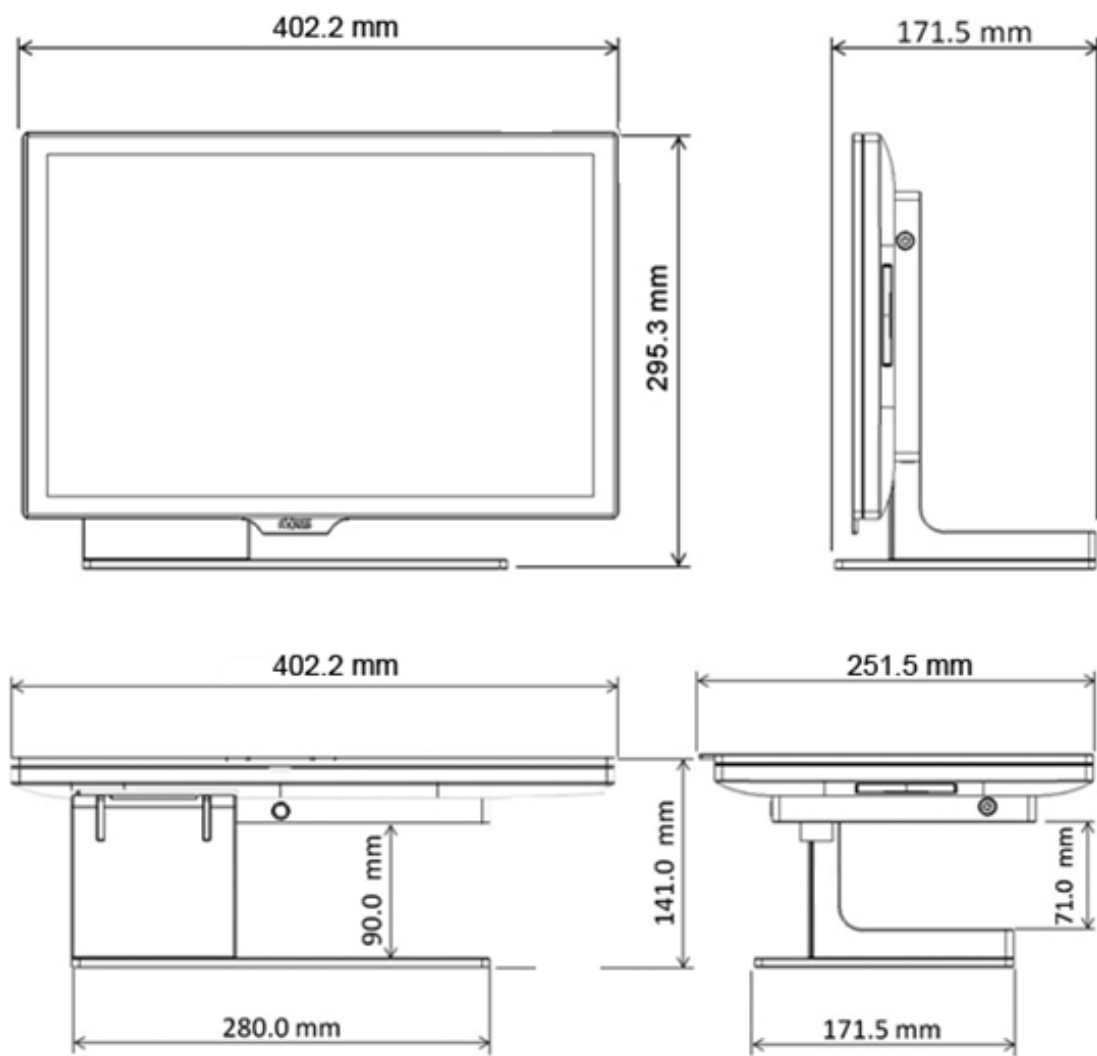
Number	Description
11	Power Button
12	1 x USB 3.0 (Type A)
13	1 x USB 3.0 (Type A)

2.4 Dimension

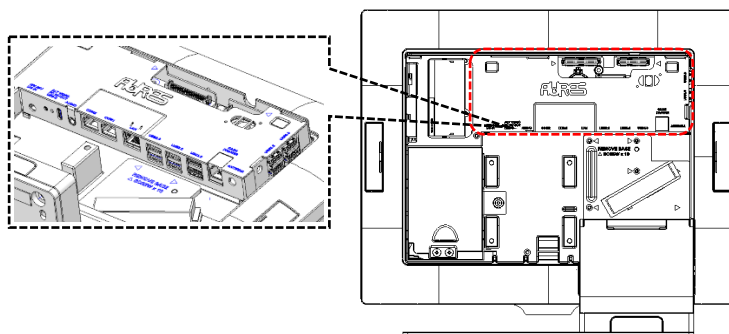
For YUNO-C 151,



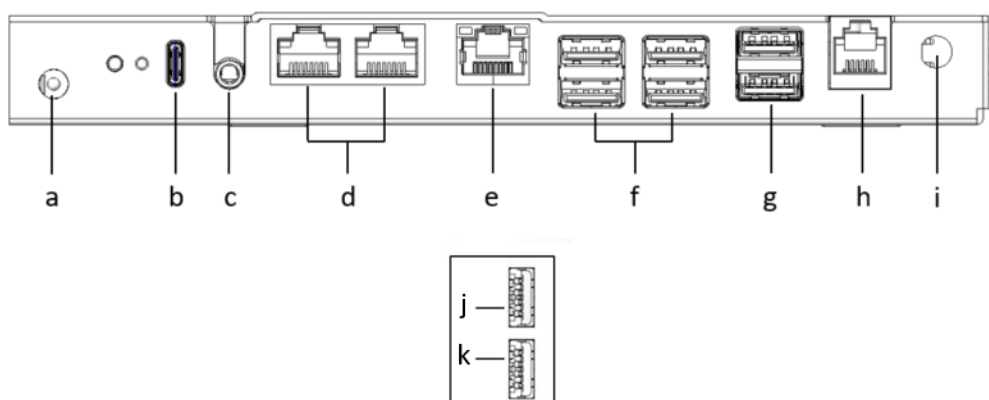
For YUNO-C 156,



2.5 I/O View



YUNO-C151 & YUNO-C156



Bottom-up View	
Number	Description
a	DC-IN jack (19~24Vdc)
b	USB-C (AltVideo; Power IN/OUT)
c	Combo Audio jack (3.5mm 4 conductor)
d	COM1~2 (from right to left) (RJ50 Connector)
e	LAN (RJ45 Connector)
f	4 x USB 2.0 (Type A)
g	2 x USB 3.0 (Type A)
h	Cash Drawer (RJ12 Connector)
i	reserved for Wi-Fi /Bluetooth Antenna

Right-side View	
Number	Description
j	1 x USB 3.0 (Type A)
k	1 x USB 3.0 (Type A)

3. Specification

Model Name	YUNO-C	
Model Number	YUNO-C151	YUNO-C156-50KH
CPU support	KR700/CML motherboard (Alder Lake platform) : Intel® Celeron™ N97 Processor (4 cores, 6M Cache, 3.60 GHz)	
System memory	1 x SO-DIMM DDR5 4800 8GB (Max 16GB)	
LAN controller	Realtek RTL8111H PCI-E Gigabit LAN	
Audio controller	Realtek ALC233 HD Audio CODEC with 2-Channel	
Audio	2W Speaker x 1 (included)	
BIOS	AMI uEFI BIOS	
LCD Panel		
LCD size	15.0" Life : 50,000 hours (BOE DV1150X0M-N12)	15.6" Life : 37,000 hours (BOE NV156FHM-N4T HW:V8.1)
Brightness in cd/m²	350	250
Maximal resolution	1024 x 768	1920 x 1024 Full High Definition (FHD)
Aspect Ratio	4:3	16:9
Backlight Type	LED	
Touch Sensor		
P-CAP Touch	TopGroup Touch / Tiguan Touch	
Touch Screen	10	
Interface	USB	
Storage		
1st SSD	1 x NVMe/SATA.M.2-2280 SSD slot (128GB included)	
2nd SSD	1 x NVMe.M.2-2280 SSD slot	
Side I/O		
Power Button	1 x with power indicator (blue color when power ON)	
USB	2 x USB 3.0	

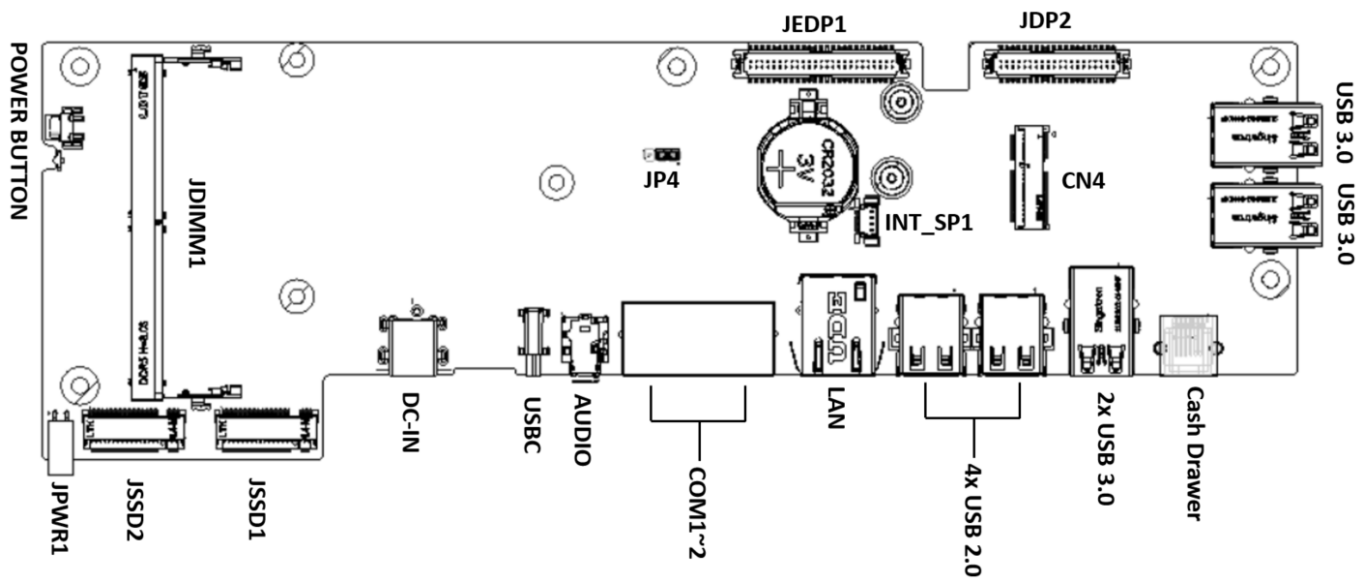
Rear Bottom I/O		
DC-IN jack	1 x radio jack connector for 12~24V DC input	
USB-C	1 x AltVideo; Power IN/OUT	
Audio jack	1 x 4-conductor 3.5mm audio jack for MIC-in and Line-out	
Serial / COM	2 x RJ50 connector with RJ50 to DB9 cable for RS-232 port COM1/COM2: RS232, powered COM with MCU APP select (Default setting)/ +5V (Default) / +12V for DB9 pin9 by MCU setting	
LAN	1 x RJ45 port for Gigabit Ethernet, support Wake on LAN	
USB	4 x USB 2.0 2 x USB 3.0	
Cash Drawer	1 x RJ12, support 12V / 24V DC Cash Drawer	
Power		
Power Adapter	External 19V / 3.42A 65Watt Adapter	
Peripherals		
Customer Display	Attachment-type via Serial COM3	
Second Display	Attachment-type USB interface non-Touch and Touch models	
Magnetic Stripe Reader	Attachment-type 3-Track USB Keyboard HID	
2D Scanner	Attachment-type USB interface	
Dallas Key Reader	Attachment-type Keyboard and Serial emulation USB interface	
Addimat Key Reader	Attachment-type Keyboard and Serial emulation USB interface	
COM RJ-DB9 cable	RS232 cable 50/100 cm long	
Certifications		
EMI	FCC Class B / CE / RCM	
Safety	CB / UL	
Environment		
Operating temperature	0℃ ~ 35℃ (32°F ~ 95°F)	
Storage temperature	-20℃ ~ 60℃ (-4°F ~ 140°F)	
Humidity	5% ~ 80%, non-condensing	
Dimension (W x D x H)	YUNO-C151 : LCD 90 degree 360.1 x 171.5 x 316.1 mm	YUNO-C156 : LCD 90 degree : 402.2 x 171.5 x 295.3 mm
Weight (N.W./G.W.)	YUNO-C 151 : 10kg / 11kg	YUNO-C 156 : 11.5kg / 12.5kg
OS support	Windows® 10 / Windows® 11 IOT & Linux	

* This specification is subject to change without prior notice.

4. Configuration

4.1 KR700/CML Motherboard

4.1.1 Motherboard Layout



4.1.2 Connectors & Functions

Connectors	Functions
Internal	
JEDP1	50-pin connector
JDP2	40-pin connector
JSSD1	M.2 Key-M 2280 connector
JSSD2	M.2 Key-M 2280 connector
CN4	M.2 Key-E 2230 connector
INT_SP1	Speaker connector
JDIMM1	DDR5 SO-DIMM connector
JP4	Clear CMOS
JPWR1	Remote Power Key connector
External	
SW1	Power Button
DC-IN	DC-IN jack
CN1	3.5mm 4 conductor Audio jack (Combo MIC-in and Line-out)
JCOM1~2	RJ50 Serial Ports
LAN_CON1	LAN port
JUSB21	USB2.0 port1/2
JUSB22	USB2.0 port3/4
RJ1	Cash Drawer
TYPEC1	USB TypeC AltVideo, PD IN/OUT
JUSB31	USB3.0 port1
JUSB32	USB3.0 port2
JUSB33	USB3.0 port3/4

4.1.3 Jumper Settings

Clear CMOS	
Function	JP4 (1-2)(2-3)
(Default)	1 2 3
Clear CMOS	1 2 3

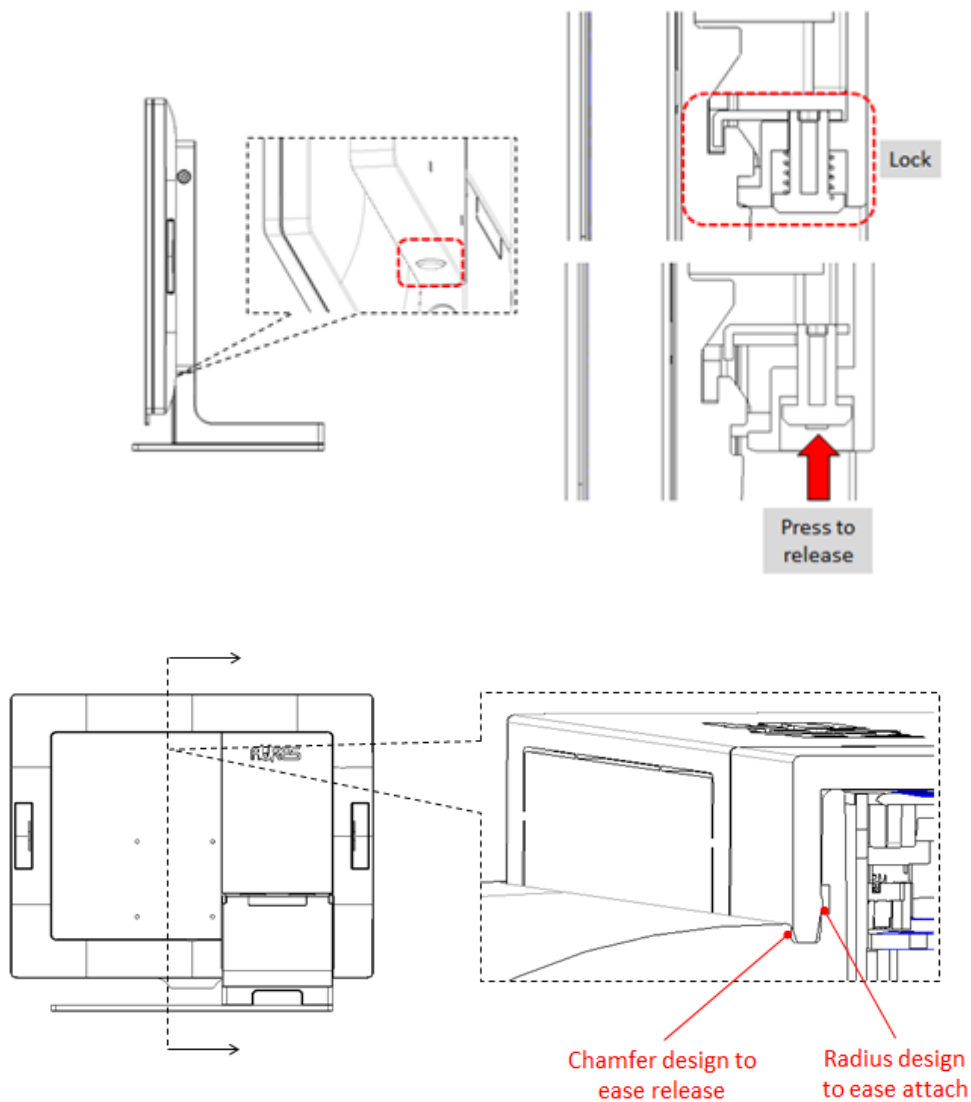
.. SHORT .. OPEN

5. POS System Assembly & Disassembly

Diagrams of YUNO-C 151 are used as a representative of all YUNO-C POS System series for elaboration in the rest of this manual.

5.1 Open the System Cover

Open the System Cover by pressing the System Cover Release Button.



5.2 Replace the Storage Disk Drive

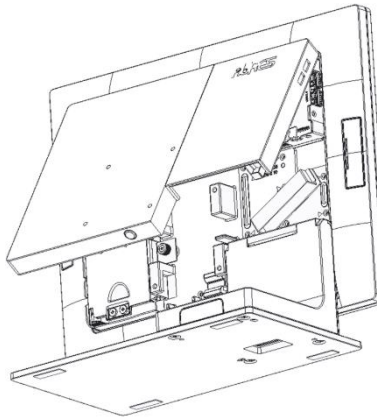
YUNO-C POS System series offers two M.2 slots to allow you to equip it, when using with Intel® Core™ Processors.

Make sure the unit is powered off before starting.

Please follow the below steps to finish the replacement :

1. Remove the System Cover

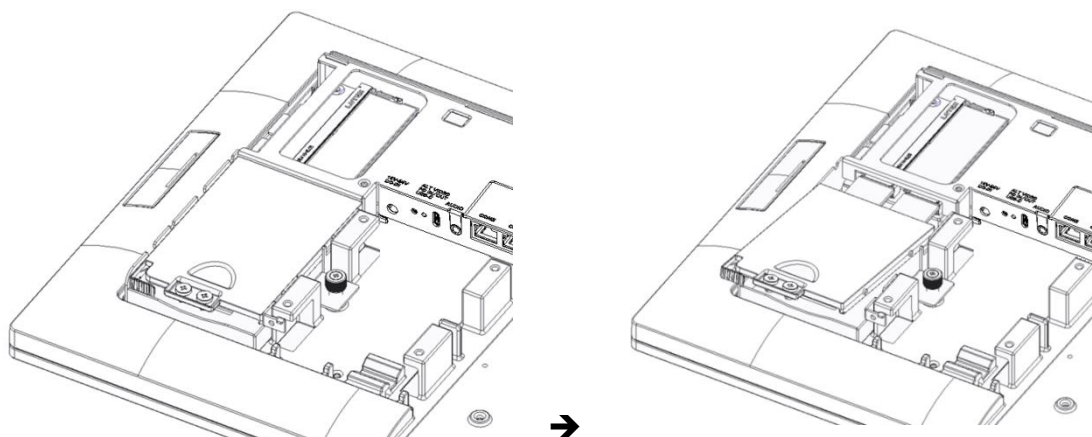
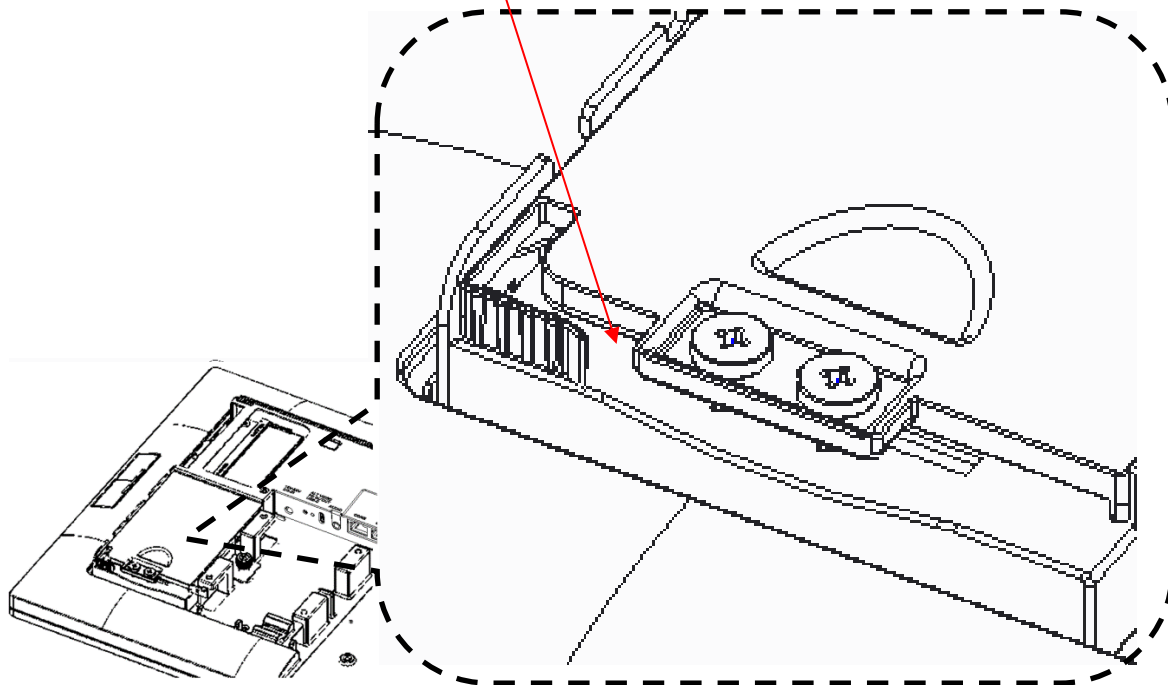
To open the System Cover, please refer to the procedures described in Chapter 5-1 and remove it.



YUNO-C151 / C156

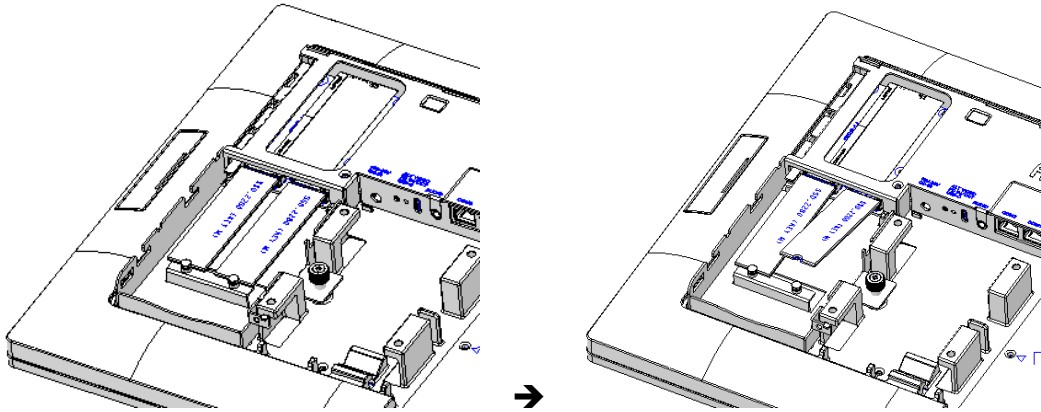
2. Remove the NVMe Protection Bracket

Slightly press its Plastic Spring Arm inward and pull out the NVMe Protection Bracket outward gently with its semi-circular opening.



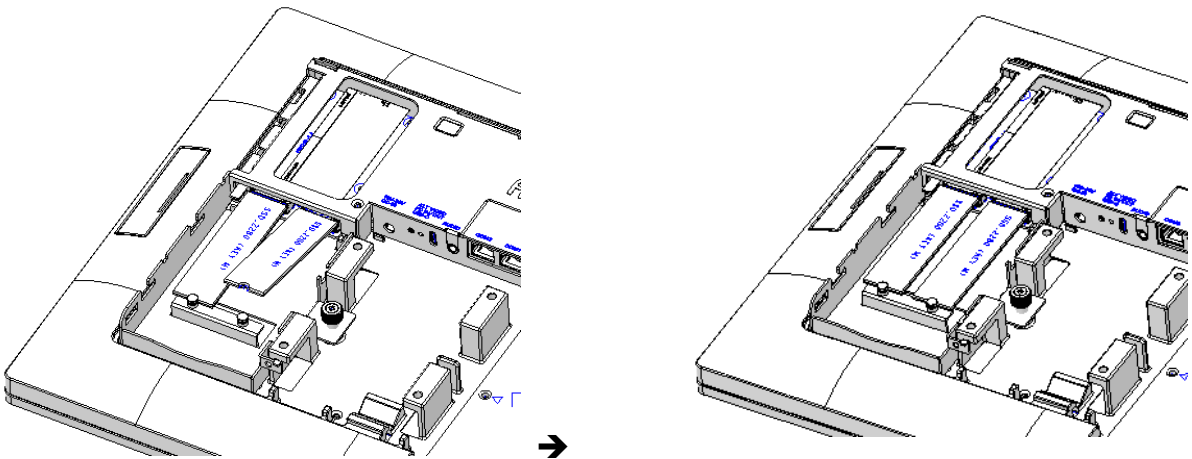
3. Remove the old drive (if applicable)

If you are going to remove a NVMe, make sure all of the cables are disconnected from both the motherboard and the power supply. The mechanism involves a rubber component that locks the end of the SSD. Lift the SSD from horizontal position and remove it from the rubber inner groove.



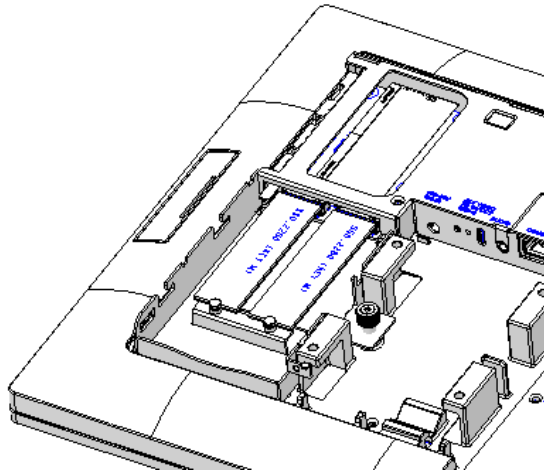
4. Insert your new drive.

Remove it from the antistatic packaging and slide it into your target drive slot of storage housing properly. Press the SSD to horizontal position and fix with the rubber inner groove.



5. Secure the storage disk drive.

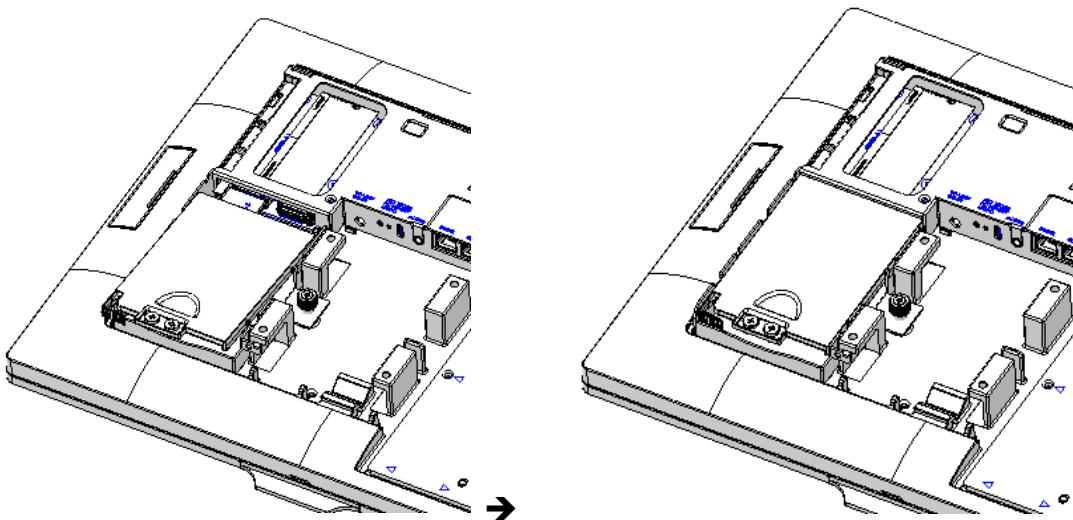
Once the storage disk drive has been completely inserted, fix with the rubber inner groove and cover it back with the storage protection bracket.



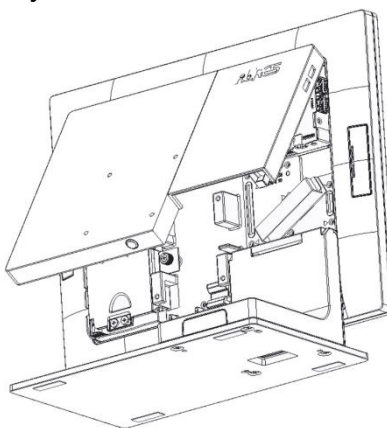
*Secondary drive should be connected to the next available M.2 slot.

6. Put back the NVMe Protection Bracket

Simply slide it in until a “click” sound is heard to ensure it in place.



7. Get ready to power on the system.



YUNO-C151 / C156

Close up the System Cover.

Reconnect the cable plug onto the wall socket and turn your YUNO-C on.

8. Finish the replacement.

If you are replacing your primary drive, you'll have to reinstall your operating system. If you are adding a new drive, you'll need to format the drive before you can use it.

5.3 Replace the Memory

Make sure the system is powered off before starting.

CAUTION :



or Hot parts!

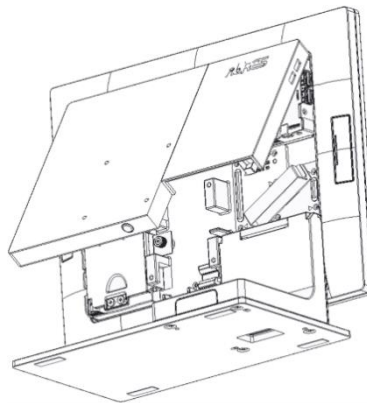
Burn fingers when handling the parts.

Wait for one-half hour after switching off before handling the parts.

Please follow the below steps to finish the replacement :

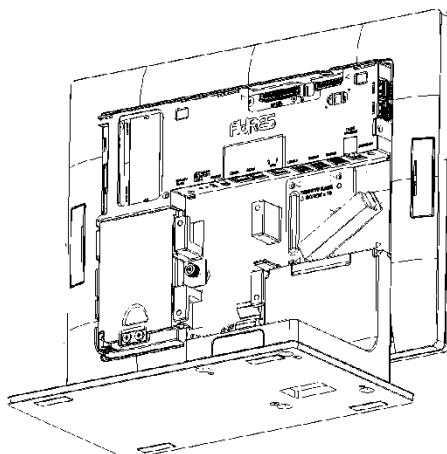
1. Remove the System Cover

To open the System Cover, please refer to the procedures described in Chapter 5-1 and remove it.



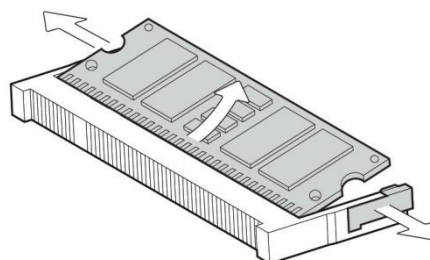
YUNO-C151 / C156

2. Locate the memory slot at the left rear side of the system.

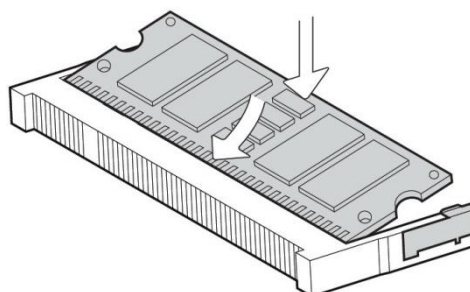


YUNO-C151 / C156

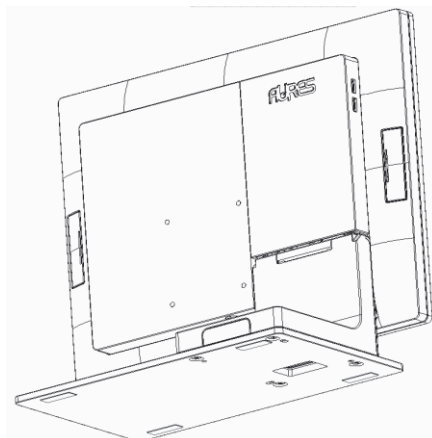
3. Flip the ejector clips outwards to remove the memory module from the memory slot.



4. Slide the memory module into the memory slot and press down until the ejector clips snap in place.



5. Close up the System Cover.

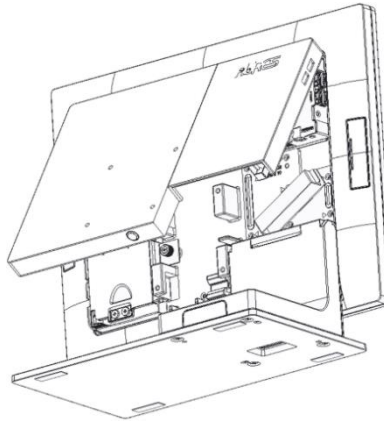


YUNO-C151 / C156

5.4 Install the Power Adapter

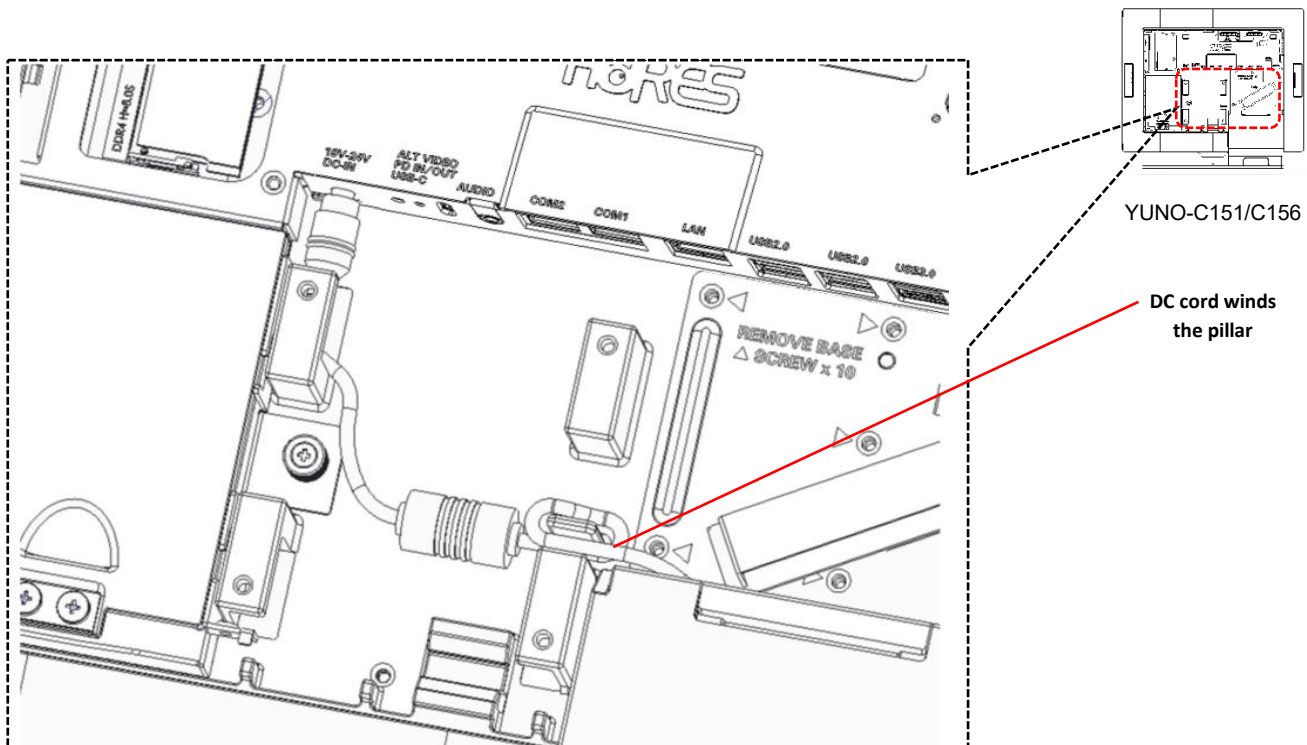
The system is equipped with a 65W power adapter. Please follow below procedures to get it plugged into the system.

1. To open the System Cover, please refer to the procedures described in Chapter 5-1, and remove it.

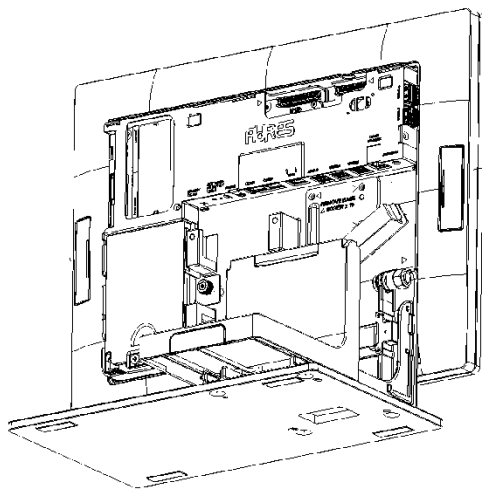


YUNO-C151 / C156

2. Locate the power connector on the I/O panel (please refer to Chapter 2-5) and connect the plug of power adapter directly to the DC-IN jack. Route the DC cord connection securely.

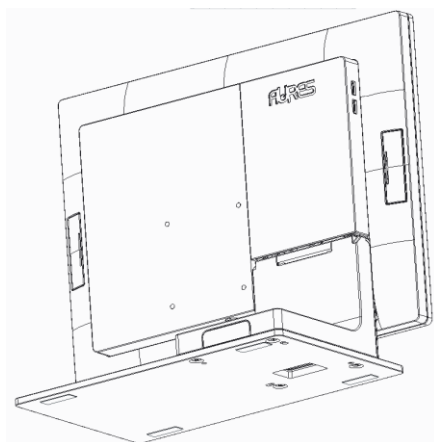


3. Remove the L-Stand / VESA Cover to locate the rest of DC cord properly.



YUNO-C151 / C156

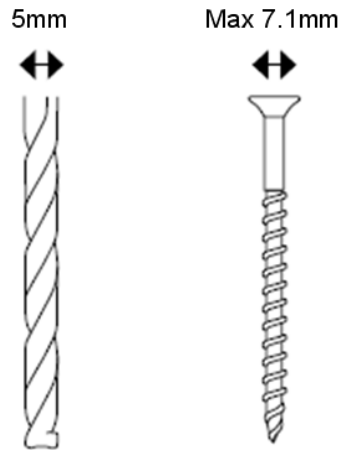
4. After finish, slide in the L-Stand / VESA Cover and close up the System Cover.



YUNO-C151 / C156

5.5 Install the Wall-mount

Before you begin, make sure you have two screws that indicate a diameter measurement of 0.1377 inches (3.5mm).



1. Determine where you want to mount the YUNO-C POS System series.
2. Drill two holes into the wall. Make sure adjacent holes are 2.95 inches (75mm) apart.
3. Insert a screw into each hole, and leave 0.2 inches (5mm) of its head exposed.
4. Maneuver the YUNO-C POS System series so the wall-mount slots line up with the two screws.
5. Place the wall-mount slots over the screws and slide the YUNO-C POS System series down until the screws fit snugly into the wall-mount slots.

YUNO-C POS System series follows VESA Mounting Interface Standard to allow you to mount the elegant bezel-free panel PC to a stand or wall with four M4 screws easily.

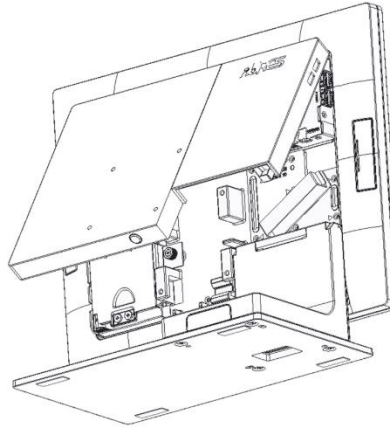
The horizontal and vertical distance between the tapped holes on YUNO-C POS System series is 75 mm.

Make sure the system is powered off before starting.

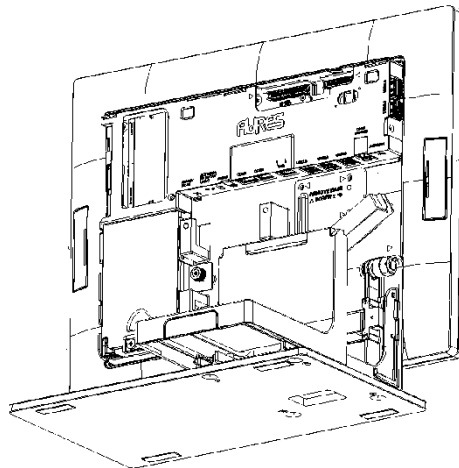
Please follow the below steps to get it ready for the mounting process :

1. Remove the System Cover.

To open the System Cover, please refer to the procedures described in Chapter 5-1, and remove it.

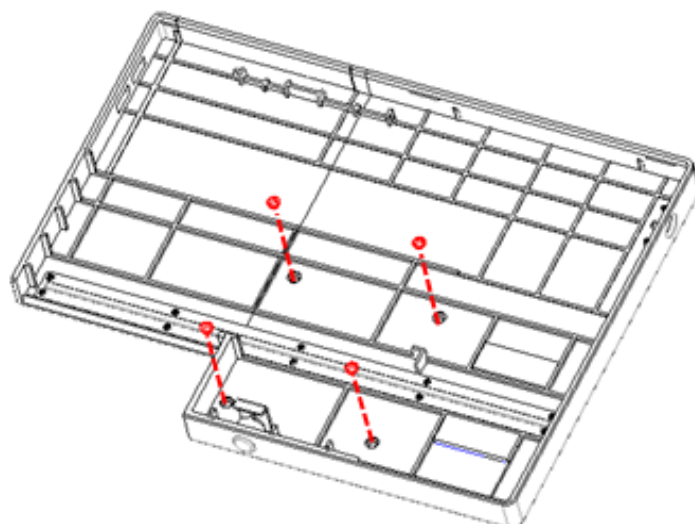


2. Remove the L-Stand Cover.

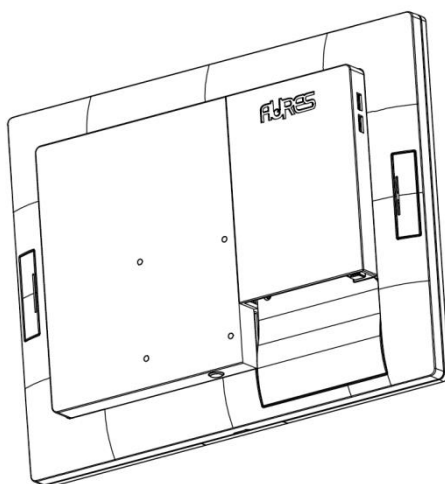


3. Detach the panel PC by unscrewing the **10** pcs of screws from the L-Stand Cover.

4. Remove the 4 pcs of rubber cap from the System Cover.



5. Get ready to the mounting process.



YUNO-C151 / C156

Close up the System Cover and then mount it to a stand or wall with four M4 screws easily.

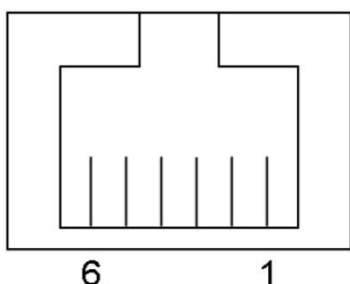
6. Peripherals Installation

6.1 Install the Cash Drawer

You can install a cash drawer through the cash drawer port.

Please verify the pin assignment before installation.

Cash Drawer Pin Assignment



Pin	Signal
1	GND
2	DOUT bit0
3	DIN bit0
4	12V / 19V
5	DOUT bit1
6	GND

Cash Drawer Controller Register

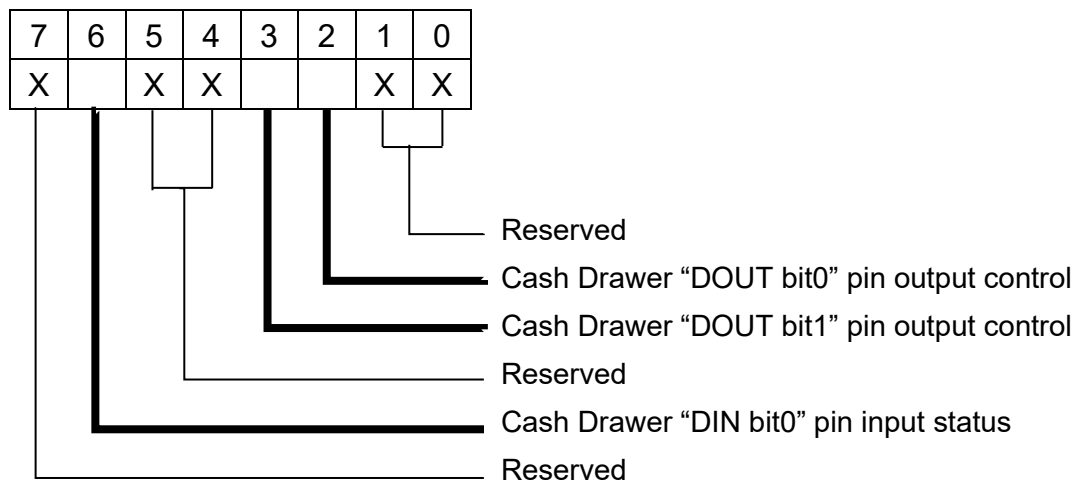
The Cash Drawer Controller use one I/O addresses to control the Cash Drawer.

Register Location : 48Ch

Attribute : Read / Write

Size : 8-bit

BIT	BIT7	BIT6	BIT5	BIT4	BIT3	BIT2	BIT1	BIT0
Attribute	Reserved	Read	Reserved		Write		Reserved	



- BIT7: Reserved
- BIT6: Cash Drawer "DIN bit0" pin input status.
 = 1: the Cash Drawer closed or no Cash Drawer
 = 0: the Cash Drawer opened
- BIT5: Reserved
- BIT4: Reserved
- BIT3: Cash Drawer "DOUT bit1" pin output control.
 = 1: Opening the Cash Drawer
 = 0: Allow close the Cash Drawer
- BIT2: Cash Drawer "DOUT bit0" pin output control.
 = 1: Opening the Cash Drawer
 = 0: Allow close the Cash Drawer
- BIT1: Reserved
- BIT0: Reserved

Note: Please follow the Cash Drawer control signal design to control the Cash Drawer.

Cash Drawer Control Command Example

Use Debug.EXE program under DOS or Windows98

Command	Cash Drawer
O 48C 04	Opening
O 48C 00	Allow to close
➤ Set the I/O address 48Ch bit2 =1 for opening Cash Drawer by "DOUTbit0" pin control. ➤ Set the I/O address 48Ch bit2 = 0 for allow close Cash Drawer.	

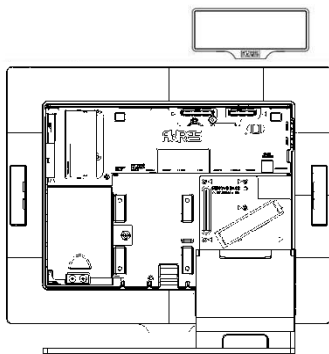
Command	Cash Drawer
I 48C	Check status
➤ The I/O address 48Ch bit6 =1 mean the Cash Drawer is opened or not exist. ➤ The I/O address 48Ch bit6 =0 mean the Cash Drawer is closed.	

6.2 Install the Attachment-type Customer Display (YUNO-VFD) and Second Display (YUNO-2NDLCD10.1)

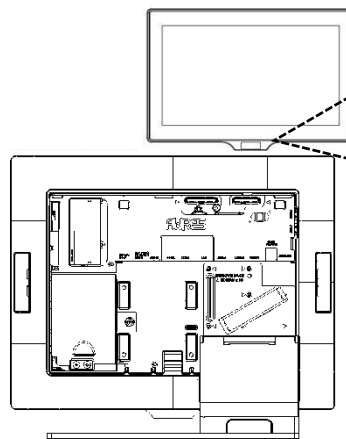
The Attachment-type Customer Display (YUNO-VFD) and Second Display (YUNO-2NDLCD10.1) can be installed from the rear top side of the system. Make sure the unit is powered off before starting.

Please follow the below steps to finish the installation :

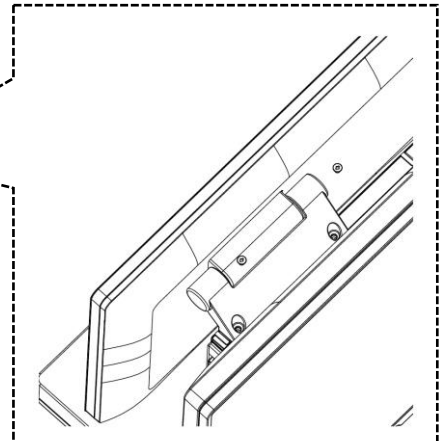
1. Unscrew the two pcs of screws from the rear top service door and remove it.
2. Connect the Customer Display / Second Display cable with the connector of the system. Locate this connection properly.
3. Insert the Customer Display / Second Display in place and fasten the two pcs of screws to make it secure.



Installed with YUNO-VFD



Installed with YUNO-
2NDLCD10.1



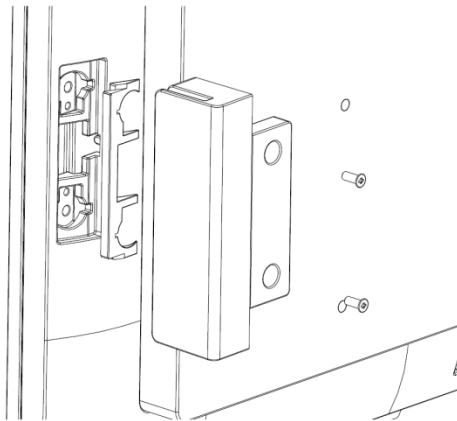
6.3 Install other Attachment-type Peripherals

Attachment-type peripherals, including YUNO-MSR, YUNO-SCANNER2D, YUNO-DALLAS and YUNO-ADDIMAT Reader, may be easily installed at either side of the system. YUNO-MSR is used as an installation representative for elaboration.

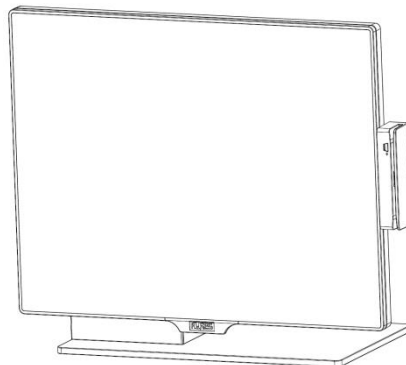
Make sure the unit is powered off before starting.

Please follow the below steps to finish the installation :

1. Unscrew the two pcs of screws from the selected side service door and remove its cover.
2. Place the Peripheral Adapter and connect the peripheral with the connector of the system. Locate this connection properly.



3. Insert the peripheral in place and fasten the two pcs of screws to make it secure.



1. VFD GENERAL SPECIFICATIONS

No	Item	Description
1	Display method	Vacuum fluorescent display
2	Number of character	40 characters (20 columns x 2 lines)
3	Character font	5 x 7 dot matrix
4	Display color	Blue green
5	Brightness	~ 500 cd/m ²
6	Character type	96 alphanumeric 13 kinds of international character set 1 kind of user define character
7	Character size	9.03 mm x 5.25 mm
8	Power supply	5 V
9	Power consumption	2.3W (Max.)
10	MTBF	25,000 hours
11	Module dimensions	146 (W) x 49.2 (H) x 15.2 (D) mm
12	Weight	85g
13	Operating temperature	0 ~ 45°C
14	Operating Humidity	30% ~ 85%
15	Storage Temperature	-10 ~ 50°C
16	Storage Humidity	10% ~ 90%

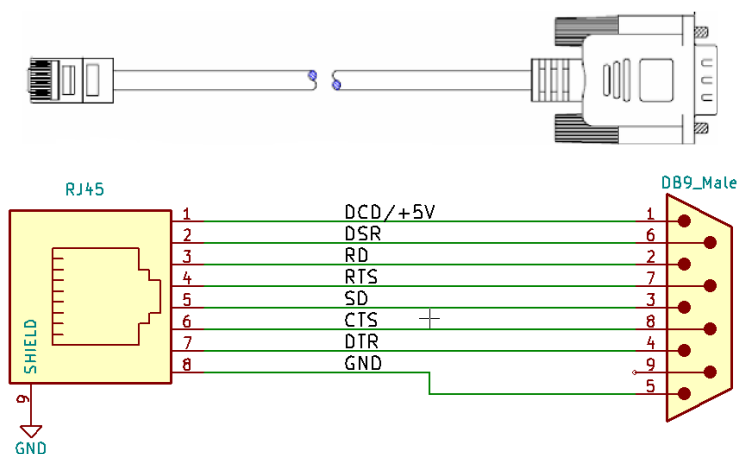
2. INTERFACE

2.1 RS-232C Specifications

Data transmission	Serial
Synchronization	Asynchronous
Handshaking	DTR / DSR
Signal level	MARK = -3 to -15 V (logic "1") SPACE = +3 to +15 V (logic "0")
Baud rates	4800,9600,19200,38400 or 115200 bps
Parity and bit length	None parity, 8 data bits or Even parity, 7 data bits
Stop bits	1 or more

Note: There are 200 bytes resident buffer in the display for pass data to printer. If PC/host keep transmitting the data to printer when the display is inactive DTR or RTS, data will be lost.

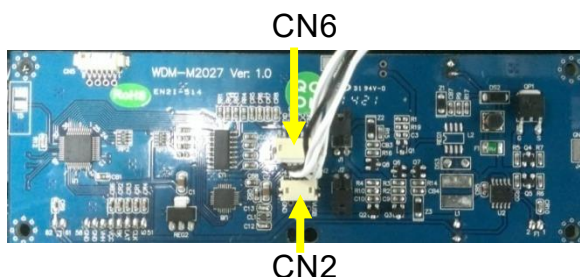
RJ50-10 Pin	RJ45-8 Pin	DB9	Signal
Pin 1	---	---	---
Pin 2	Pin 1	Pin 1	DCD/+5V
Pin 3	Pin 2	Pin 6	DSR
Pin 4	Pin 3	Pin 2	RD
Pin 5	Pin 4	Pin 7	RTS
Pin 6	Pin 5	Pin 3	SD
Pin 7	Pin 6	Pin 8	CTS
Pin 8	Pin 7	Pin 4	DTR
Pin 9	Pin 8	Pin 5	GND
Pin 10	---	Pin 9	RI/+



RJ50-DB9 50cm (ART-05266)

RJ50-DB9 100cm (ART-03335)

3. CONNECTOR AND JUMPER



3.1 RS232C connector (CN6)

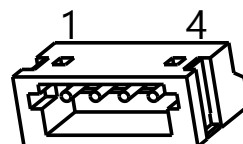
Connector type: JST/ZH/1.5mm/6P
Pin assignment



No	Signal	Direction	Function Description
1	TXD	From display to PC/Host	
2	RXD	From PC/Host to display	
3	RTS	From display to PC/Host	
4	CTS	From PC/Host to display	
5	GND	-	Signal ground
6	Vin	-	Power 5 Vdc

3.2 USB connector (CN2)

Connector type: JST/ZH/1.5mm/4P
Pin assignment



No	Signal	Direction	Function Description
1	GND	-	Signal ground
2	USBD+	-	USB data signal +
3	USBD-	-	USB data signal -
4	5Vdc	5V From PC/Host	Power 5 Vdc

3.3 ON/OFF Switch Connector

Type: JST/XH/2.5mm/2P



Location	SHORT	OPEN
J1	RS232 enable	RS232 disable
J2	USB enable	USB disable

4. COMMAND

4.1 CD5220 Standard Mode Command List

Command	Code (hex)	Function Description
ESC DC1	1B 11	Overwrite mode
ESC DC2	1B 12	Vertical scroll mode
ESC DC3	1B 13	Horizontal scroll mode
ESC QACR	1B 51 41 <i>data</i> x m 0D	Set the string display mode, write string to upper line $m \leq 20$
ESC QBCR	1B 51 42 <i>data</i> x m 0D	Set the string display mode, write string to lower line $m \leq 20$
ESC QDCR	1B 51 44 <i>data</i> x m 0D	Upper line message scroll continuously $m \leq 40$
ESC [D	1B 5B 44	Move cursor left
BS	08	Move cursor left
ESC [C	1B 5B 43	Move cursor right
HT	09	Move cursor right
ESC [A	1B 5B 41	Move cursor up
ESC [B	1B 5B 42	Move cursor down
LF	0A	Move cursor down
ESC [H	1B 5B 48	Move cursor to home position
HOM	0B	Move cursor to home position
ESC [L	1B 5B 4C	Move cursor to left-most position
CR	0D	Move cursor to left-most position
ESC [R	1B 5B 52	Move cursor to right-most position
ESC [K	1B 5B 4B	Move cursor to bottom position
ESC I x y	1B 6C x y	Move cursor to specified position $1 \leq x \leq 20$,row position $1 \leq y \leq 2$,column position
ESC @	1B 40	Initialize display
CLR	0C	Clear display screen , and clear string mode
CAN	18	Clear cursor line, and clear string mode
ESC * n	1B 2A n	Brightness adjustment $1 \leq n \leq 4$

ESC & s n m [a (P1..pa)]x (m- n+1)	1B 26 1 n m [a(p1..pa)] x (m-n+1)	Define download characters. $32 \leq n \leq m \leq 255$ $1 \leq a \leq 5$ p1..p5 = row1..row5
ESC ? n	1B 3F n	Deletes download characters. $32 \leq n \leq m \leq 255$
ESC % n	1B 25 n	Select/cancel download character set. n = 0 , Cancel n = 1 , Select
ESC _ n	1B 5F n	Set cursor on/off n = 1 , cursor on n = 2 , cursor off
ESC f n	1B 66 n	Select international fonts set, refer *2
ESC c n	1B 63 n	Select code, refer *3
ESC = n	1B 3D n	Select peripheral device, display or printer n bit 0 = 1 select printer n bit 1 = 1 select display

*REMARK :

*1 The parameter of international fonts set control by command “ESC f n”

Parameter “n”	International font set
“A”	U.S.A.
“G”	Germany
“I”	Italy
“J”	Japan
“U”	U.K.
“F”	France
“S”	Spain
“N”	Norway
“W”	Sweden
“D”	Denmark I
“E”	Denmark II
“L”	Slavonic
“R”	Russia

*2 The parameter of the code table control by command “ESC c n”

Parameter “n”	International font set
“A”	Compliance with ASCII code
“J”	Compliance with JIS code
“L”	Compliance with SLAVONIC code
“R”	Compliance with RUSSIA code

4.2 UTC standard mode command list

Command	Code (hex)	Function Description
EOT n	04 n	Display Dimming n = 20h, 40h, 60h, FFh
BS	08	Back space
HT	09	Horizontal tab
LF	0A	Line feed
CR	0D	Carriage return
DLE	0F	Display position
DC1	11	Over write display mode
DC2	12	Vertical scroll mode
DC3	13	Cursor on
DC4	14	Cursor off
CAN	18	Clear to end of line
EM	19	Clear to end of display
FS	1C	Flashing text start
GS	1D	Flashing text end
US	1F	Reset display
RS	1E	Home and clear display
ESC d	1B 64	Change to UTC enhanced mode

4.3 UTC enhanced mode command list

Command	Code (hex)	Function Description
SI	0F	Flashing text start
SO	0E	Flashing text stop
ESC u A ..CR	1B 75 41 <i>data</i> x m 0D	Upper line display $0 \leq m \leq 20$
ESC u B ..CR	1B 75 42 <i>data</i> x m 0D	Bottom line display $0 \leq m \leq 20$
ESC u D ..CR	1B 75 44 <i>data</i> x m 0D	Upper line message scroll continuously $0 \leq m \leq 40$
ESC u E ..CR	1B 75 45 "hh:mm" 0D	Display time '00' $\leq$ hh $\leq$ '23' '00' $\leq$ mm $\leq$ '59'
ESC u F ..CR	1B 75 46 <i>data</i> x m 0D	Upper line message scroll once pass
ESC u H ..CR	1B 75 48 n m 0D	Change attention code $32 \leq n \leq 255$ $32 \leq m \leq 255$
ESC u I ..CR	1B 75 49 <i>data</i> x m 0D	Two line display $0 \leq m \leq 40$
ESC RS CR	1B 0F 0D	Change to UTC standard mode

4.4 AEDEX mode command list

Command	Code (hex)	Function Description
! # 1CR	21 23 31 <i>data</i> x m 0D	Upper line display $0 \leq m \leq 40$
! # 2CR	21 23 32 <i>data</i> x m 0D	Bottom line display $0 \leq m \leq 40$
! # 4CR	21 23 34 <i>data</i> x m 0D	Upper line message scroll continuously $0 \leq m \leq 40$
! # 5CR	21 23 35 "hh:mm" 0D	Display time '00' $\leq$ hh $\leq$ '23' '00' $\leq$ mm $\leq$ '59'
! # 6CR	21 23 36 <i>data</i> x m 0D	Upper line message scroll one pass $0 \leq m \leq 40$
! # 8CR	21 23 38 n m 0D	Change attention code $32 \leq n \leq 255$ $32 \leq m \leq 255$
! # 9CR	21 23 39 <i>data</i> x m 0D	Two line display $0 \leq m \leq 40$

4.5 PD3000 mode command list

Command	Code (hex)	Function Description
DC2	12	Vertical Scroll Mode
DC1	11	Normal Display Mode
EOT	04	Brightness Control
BS	08	Back Space
HT	09	Horizontal Tab
LF	0A	Line Feed
CR	0D	Carriage Return
DLE	10	Digit Select
DC3	13	Cursor On
DC4	14	Cursor Off
US	1F	Reset
ETX	03	Down Load Font
ENQ d1~d45 CR	05 d1~d45 0D	Message Scroll
SOH	01	Data to Peripheral
! # STX	21 23 02	Data to Display

4.6 ADM788 mode command list

Command	Code (hex)	Function Description
CLR	0C	Clear display
CR	0D	Carriage return
SLE1	0E	Clear up line and move cursor to upper line left most end
SLE2	0F	Clear low line and move cursor to lower line left most end
DC0 n	10 n	Set period to upper line last n position $31H \leq n \leq 44H$
DC1 n	11 n	Set line blanking , n = 31H up line n = 32H low line
DC2 n	12 n	Clear line blanking , n = 31H up line n = 32H low line
SF1	1E	Clear field 1 and move cursor to field 1 fast position
SF2	1F	Clear field 2 and move cursor to field 2 fast position

4.7 DSP-800 mode command list

Command	Code (hex)	Function Description
EOT SOH I n ETB	04 01 49 n 17	Select international character set.
EOT SOH P n ETB	04 01 50 n 17	Move cursor to specified position. $31H \leq n \leq 58H$
EOT SOH C n m ETB	04 01 43 n m 17	Clear display range from n position to m position and move cursor to n position. $31H \leq n \leq m \leq 58H$
EOT SOH S n ETB	04 01 53 n 17	Save the current displaying data to n layer for demo display. $31H \leq n \leq 33H$ Refer*1
EOT SOH D n m ETB	04 01 44 n m 17	Display the saved data $31H \leq n \leq 37H$ $31H \leq m \leq 37H$ Refer*2
EOT SOH A n ETB	04 01 41 n 17	Brightness adjustment. $31H \leq n \leq 34H$
EOT SOH F n ETB	04 01 46 n 17	Blink display screen. $0 \leq n \leq 255$
EOT SOH & n [px5] ETB	04 01 26 n p1...p5 17	Define download characters $20H < n \leq FFH$
EOT SOH ? n ETB	04 01 3F n 17	Delete download characters. $20H < n \leq FFH$
EOT SOH = n ETB	04 01 3D n 17	Select peripheral device. n = 31H,select printer n = 32H,select display
EOT SOH % ETB	04 01 25 17	Initialize display
EOT SOH @ ETB	04 01 40 17	Execute self-test

*REMARK :

*1 Using commands “EOT SOH S n ETB”, the value (Hex) of parameter.

n	Layer
31h	Save data in layer 1
32h	Save data in layer 2
33h	Save data in layer 3

*2 Using commands “EOT SOH D n m ETB”, the value (Hex) of parameter.

WinPOS extended “select mode” from 33h to 37h

n	Select layer	m	Select mode
31h	Demo layer 1	31h	Demo mode 1
32h	Demo layer 2	32h	Demo mode 2
33h	Demo layer 3	33h	Demo mode 3
34h	Demo layer 1 + 2	34h	Demo mode 1 + 2
35h	Demo layer 1 + 3	35h	Demo mode 1 + 3
36h	Demo layer 2 + 3	36h	Demo mode 2 + 3
37h	Demo layer 1 + 2 + 3	37h	Demo mode 1 + 2 + 3

4.8 EPSON Esc / pos command list

Command	Code (hex)	Function Description
HT	09	Move cursor right.
BS	08	Move cursor left.
US LF	1FOA	Move cursor up.
LF	0A	Move cursor down.
US CR	1F 0D	Move cursor to right-most position.
CR	0D	Move cursor to left-most position.
HOM	0B	Move cursor to home position.
US B	1F 42	Move cursor to bottom position.
US \$ x y	1F 24 x y	Move cursor to specified position. $1 \leq x \leq 20$ $1 \leq y \leq 2$
CLR	0C	Clear display screen.
CAN	18	Clear cursor line
US X n	1F 58 n	Brightness adjustment. $1 \leq n \leq 4$
US E n	1F 45 n	Blink display screen. $0 \leq n \leq 255$
ESC @	1B 40	Initialize display.
ESC t n	1B 74 n	Select character code table. $0 \leq n \leq 7, 12, 16, 19, 40$ Refer*2
ESC R n	1B 52 n	Select international character set. $0 \leq n \leq 10$ Refer*1
US r n	1F 72 n	Select/cancel reverse character. $0 \leq n \leq 1$
US MD1	1F 01	Specify overwrite mode.
US MD2	1F 02	Specify vertical scroll mode.
US MD3	1F 03	Specify horizontal scroll mode.
ESC & s n m [a(p1..pa)]x m-n	1B 26 1 n m [a(p1..pa)]x m-n	Define download characters. $32 \leq n \leq 255$ $1 \leq a \leq 5$ p1..p5 =row1..row5
ESC ?	1B 3F n	Delete downloads characters. $32 \leq n \leq 255$

ESC %	1B 25 n	Select/cancel download character set. n = 0 , Cancel n = 1 , Select
ESC = n	1B 3D n	Select peripheral device. n bit 0 = 1 select printer n bit 1 = 1 select display
ESC & n s [p]	1B 26 n s data	Define user font pattern Refer *3
US :	1F3A	Set starting/ending position of macro definition.
US ^ n m	1F 5E n m	Execute and quit macro. $0 \leq n \leq 255$, $0 \leq m \leq 255$
US @	1F 40	Execute self-test.
US T h m	1F 54 h m	Display time $0 \leq h \leq 23$, $0 \leq m \leq 59$
US U	1F 55	Display time continuously
US C n	1F 43 n	Select / cancel cursor display n = 1 , cursor on n = 0 , cursor off
US .	1F 2E n	Display Period. $32 \leq n \leq 126$ and $128 \leq n \leq 255$
US ,	1F 2C n	Display Comma. $32 \leq n \leq 126$ and $128 \leq n \leq 255$
US ;	1F 3B n	Display Semicolon. $32 \leq n \leq 126$ and $128 \leq n \leq 255$

*REMARK :

*1 Select international character set

n	International font	n	International font
0	U.S.A.	8	Japan
1	France	9	Norway
2	Germany	10	Denmark II
3	U.K.	11	Slavonic
4	Denmark I	12	Russia
5	Sweden	13	Portuguese
6	Italy	14	Greek
7	Spain	15	Reserved

*2 Select character code table

n	Code table	n	Code table
0	PC437,USA standard Euro	7	PC866, Russia
1	Katakana for Japan	12	PC737, Greek
2	PC850,Multilingual	13	PC775
3	PC860, Portuguese	14	PC864
4	PC863,Canadian-French	16	WPC1252
5	PC865,Nordic	19	PC858, Euro
6	PC852, Slavonic	26	WPC1257

5. CHARACTER SET

5.1 International Font

5.1.1 USA, standard character set (20h – 7Fh)

	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
20	<u>SP</u> 0020	!	"	#	\$	%	&	'	(	)	*	+	,	-	.	/
30	0	1	2	3	4	5	6	7	8	9	:	;	<	=	>	?
40	@	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
50	P	Q	R	S	T	U	V	W	X	Y	Z	[	\	]	^	_
60	`	a	b	c	d	e	f	g	h	i	j	k	l	m	n	o
70	p	q	r	s	t	u	v	w	x	y	z	{		}	~	<u>DEL</u> 007F

5.1.2 Other character sets

U.S.A	#	\$	@	[	\	]	^	`	{		}	~
France	#	\$	à	°	ç	§	^	`	é	ù	è	¨
Germany	#	\$	§	Ä	Ö	Ü	^	`	ä	ö	ü	ß
U.K	£	\$	@	[	\	]	^	`	{		}	~
Denmark I	#	\$	@	Æ	Ø	Å	^	`	æ	ø	å	~
Sweden	#	¤	É	Ä	Ö	Å	Ü	é	ä	ö	å	ü
Italy	#	\$	@	°	\	é	^	ù	à	ò	è	ì
Spain	Pt	\$	@	í	Ñ	¿	^	`	¨	ñ	}	~
Japan	#	\$	@	[	¥	]	^	`	{		}	~
Norway	#	¤	É	Æ	Ø	Å	Ü	é	æ	ø	å	ü
Denmark II	#	\$	É	Æ	Ø	Å	Ü	é	æ	ø	å	ü
Slavonic	#	\$	@	[	\	]	^	`	{		}	~
Russia	#	\$	@	[	\	]	^	`	{		}	~

5.2 Code Page

5.2.1 PC437 : USA, Standard Europe (80H – FFH)

	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
80	Ç 00C7	ü 00FC	é 00E9	â 00E2	ä 00E4	à 00E0	å 00E5	ç 00E7	ê 00EA	ë 00EB	è 00E8	ï 00EF	î 00EE	ì 00EC	Ä 00C4	Å 00C5
90	É 00C9	æ 00E6	Æ 00C6	ô 00F4	ö 00F6	ò 00F2	û 00FB	ù 00F9	ÿ 00FF	Ö 00D6	Ü 00DC	¢ 00A2	£ 00A3	¥ 00A5	₤ 20A7	f 0192
A0	á 00E1	í 00ED	ó 00F3	ú 00FA	ñ 00F1	Ñ 00D1	ª 00AA	º 00BA	¿ 00BF	¬ 2310	¬ 00AC	½ 00BD	¼ 00BC	¿ 00A1	« 00AB	» 00BB
B0	▨ 2591	▩ 2592	▪ 2593	 2502	└ 2524	┘ 2561	┐ 2562	┌ 2556	┐ 2555	┐ 2563	 2551	┐ 2557	┐ 255D	┐ 255C	┐ 255B	┐ 2510
C0	└ 2514	┘ 2534	┐ 252C	┘ 251C	┐ 2500	┘ 253C	┘ 255E	┘ 255F	┘ 255A	┘ 2554	┘ 2569	┘ 2566	┘ 2560	= 2550	┘ 256C	┘ 2567
D0	┘ 2568	┘ 2564	┘ 2565	┘ 2559	┘ 2558	┘ 2552	┘ 2553	┘ 256B	┘ 256A	┘ 2518	┘ 250C	■ 2588	■ 2584	■ 258C	■ 2590	■ 2580
E0	α 03B1	β 00DF	Γ 0393	Π 03C0	Σ 03A3	σ 03C3	μ 00B5	τ 03C4	Φ 03A6	Θ 0398	Ω 03A9	δ 03B4	∞ 221E	φ 03C6	ε 03B5	Π 2229
F0	≡ 2261	± 00B1	≥ 2265	≤ 2264	┐ 2320	┐ 2321	÷ 00F7	≈ 2248	° 00B0	· 2219	· 00B7	√ 221A	² 207F	² 00B2	■ 25A0	<u>NBSP</u> 00A0

5.2.2 Katakana (80H – FFH)

	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
80	▬	▬	▬	▬	▬	▬	▬	▬	▬	▬	▬	▬	▬	▬	▬	▬
90					2588	2592	2591	→	←	↑	↓	×	÷	±	≤	≥
A0	2588	2592	2591	2192	2190	2191	2193	00D7	00F7	00B1	2266	2267				
B0	FF70	FF71	FF72	FF73	FF74	FF75	FF76	FF77	FF78	FF79	FF7A	FF7B	FF7C	FF7D	FF7E	FF7F
C0	FF80	FF81	FF82	FF83	FF84	FF85	FF86	FF87	FF88	FF89	FF8A	FF8B	FF8C	FF8D	FF8E	FF8F
D0	FF90	FF91	FF92	FF93	FF94	FF95	FF96	FF97	FF98	FF99	FF9A	FF9B	FF9C	FF9D	FF9E	FF9F
E0	25A1	25A0		25CB	25CF	25C7	25C6	+	▶	◀	▲	▼	226A	226B	00BD	00BC
F0	日	月	火	水	木	金	土	年	円	分	人	大	中	小	〒 3012	℃ 2103

5.2.3 PC850 : Multilingual (80H – FFH)

	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
80	Ç 00C7	ü 00FC	é 00E9	â 00E2	ä 00E4	à 00E0	å 00E5	ç 00E7	ê 00EA	è 00EB	è 00E8	ï 00EF	î 00EE	ì 00EC	Ä 00C4	Å 00C5
90	É 00C9	æ 00E6	Æ 00C6	ø 00F4	ö 00F6	ò 00F2	û 00FB	ù 00F9	ÿ 00FF	Ö 00D6	Ü 00DC	ø 00F8	£ 00A3	Ø 00D8	× 00D7	f 0192
A0	á 00E1	í 00ED	ó 00F3	ú 00FA	ñ 00F1	Ñ 00D1	ª 00AA	º 00BA	¿ 00BF	® 00AE	¬ 00AC	¼ 00BD	½ 00BC	¡ 00A1	« 00AB	» 00BB
B0	2591	2592	2593	2502	2524	00C1	00C2	00C0	00A9	2563	2551	2557	255D	00A2	00A5	2510
C0	2514	2534	252C	251C	2500	253C	00E3	00C3	255A	2554	2569	2566	2560	2550	256C	00A4
D0	00F0	00D0	00CA	00CB	00C8	0131	00CD	00CE	00CF	2518	250C	2588	2584	00A6	00CC	2580
E0	00D3	00DF	00D4	00D2	00F5	00D5	00B5	00FE	00DE	00DA	00DB	00D9	00FD	00DD	00AF	00B4
F0	00AD	00B1	2017	00BE	00B6	00A7	00F7	0038	00B0	00A8	00B7	00B9	00B3	00B2	25A0	00A0

5.2.4 PC860 : Portuguese (80H – FFH)

	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
80	Ç 00C7	ü 00FC	é 00E9	â 00E2	ã 00E3	à 00E0	Á 00C1	ç 00E7	ê 00EA	Ê 00CA	è 00E8	Í 00CD	Ô 00D4	ì 00EC	Ã 00C3	Â 00C2
90	É 00C9	À 00C0	È 00C8	ô 00F4	õ 00F5	ò 00F2	Ú 00DA	ù 00F9	Ì 00CC	Õ 00D5	Ü 00DC	¢ 00A2	£ 00A3	Ù 00D9	Þ 20A7	Ó 00D3
A0	á 00E1	í 00ED	ó 00F3	ú 00FA	ñ 00F1	Ñ 00D1	ª 00AA	º 00BA	¿ 00BF	Ò 00D2	¬ 00AC	½ 00BD	¼ 00BC	¡ 00A1	« 00AB	» 00BB
B0	 2591	 2592	 2593	 2502	└ 2524	≠ 2561	≡ 2562	⊥ 2556	≡ 2555	≡ 2563	≡ 2551	≡ 2557	≡ 255D	≡ 255C	≡ 255B	└ 2510
C0	└ 2514	└ 2534	└ 252C	└ 251C	— 2500	└ 253C	└ 255E	└ 255F	└ 255A	└ 2554	└ 2569	└ 2566	└ 2560	≡ 2550	≡ 256C	≡ 2567
D0	≡ 2568	≡ 2564	≡ 2565	≡ 2559	≡ 2558	≡ 2552	≡ 2553	≡ 256B	≡ 256A	└ 2518	└ 250C	 2588	 2584	 258C	 2590	 2580
E0	α 03B1	β 00DF	Γ 0393	π 03C0	Σ 03A3	σ 03C3	μ 03BC	τ 03C4	Φ 03A6	Θ 0398	Ω 03A9	δ 03B4	∞ 221E	φ 03C6	ε 03B5	∩ 2229
F0	≡ 2261	± 00B1	≥ 2265	≤ 2264	∫ 2320	J 2321	÷ 00F7	≈ 2248	° 00B0	• 2219	• 00B7	✓ 221A	² 207F	² 00B2	 25A0	00A0

5.2.5 PC863 : Canadian-French (80H – FFH)

	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
80	Ç 00C7	ü 00FC	é 00E9	â 00E2	Â 00C2	à 00E0	¶ 00B6	ç 00E7	ê 00EA	ë 00EB	è 00E8	ï 00EF	î 00EE	— 2017	À 00C0	§ 00A7
90	É 00C9	È 00C8	Ê 00CA	ô 00F4	Ë 00CB	Ï 00CF	û 00FB	ù 00F9	¤ 00A4	Ô 00D4	Ü 00DC	¢ 00A2	£ 00A3	Ù 00D9	Û 00DB	f 0192
A0	¡ 00A6	´ 00B4	ó 00F3	ú 00FA	¨ 00A8	¸ 00B8	³ 00B3	⁻ 00AF	Î 00CE	└ 2310	└ 00AC	½ 00BD	¼ 00BC	¾ 00BE	« 00AB	» 00BB
B0	 2591	 2592	 2593	 2502	└ 2524	≠ 2561	≡ 2562	⊥ 2556	≡ 2555	≡ 2563	≡ 2551	≡ 2557	≡ 255D	≡ 255C	≡ 255B	└ 2510
C0	└ 2514	└ 2534	└ 252C	└ 251C	— 2500	└ 253C	└ 255E	└ 255F	└ 255A	└ 2554	└ 2569	└ 2566	└ 2560	≡ 2550	≡ 256C	≡ 2567
D0	≡ 2568	≡ 2564	≡ 2565	≡ 2559	≡ 2558	≡ 2552	≡ 2553	≡ 256B	≡ 256A	└ 2518	└ 250C	 2588	 2584	 258C	 2590	 2580
E0	α 03B1	β 00DF	Γ 0393	π 03C0	Σ 03A3	σ 03C3	μ 03BC	τ 03C4	Φ 03A6	Θ 0398	Ω 03A9	δ 03B4	∞ 221E	φ 03C6	ε 03B5	∩ 2229
F0	≡ 2261	± 00B1	≥ 2265	≤ 2264	∫ 2320	J 2321	÷ 00F7	≈ 2248	° 00B0	• 2219	• 00B7	✓ 221A	² 207F	² 00B2	 25A0	00A0

5.2.6 PC865 : Nordic (80H – FFH)

	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
80	Ç 00C7	ü 00FC	é 00E9	â 00E2	ä 00E4	à 00E0	å 00E5	ç 00E7	ê 00EA	ë 00EB	è 00E8	ï 00EF	î 00EE	ì 00EC	Ä 00C4	Å 00C5
90	É 00C9	æ 00E6	Æ 00C6	ô 00F4	ö 00F6	ò 00F2	û 00FB	ù 00F9	ÿ 00FF	Ö 00D6	Ü 00DC	ø 00F8	£ 00A3	Ø 00D8	Ps 20A7	f 0192
A0	á 00E1	í 00ED	ó 00F3	ú 00FA	ñ 00F1	Ñ 00D1	à 00AA	ó 00BA	¿ 00BF	┐ 2310	└ 00AC	½ 00BD	¼ 00BC	¡ 00A1	« 00AB	¤ 00A4
B0	 2591	 2592	 2593	 2502	└ 2524	≡ 2561	≡ 2562	≡ 2556	≡ 2555	≡ 2563	≡ 2551	≡ 2557	≡ 255D	≡ 255C	≡ 255B	└ 2510
C0	L 2514	└ 2534	└ 252C	└ 251C	— 2500	└ 253C	└ 255E	└ 255F	└ 255A	└ 2554	└ 2569	└ 2566	└ 2560	└ 2550	└ 256C	└ 2567
D0	└ 2568	└ 2564	└ 2565	└ 2559	└ 2558	└ 2552	└ 2553	└ 256B	└ 256A	└ 2518	└ 250C	 2588	 2584	 258C	 2590	 2580
E0	α 03B1	β 00DF	Γ 0393	π 03C0	Σ 03A3	σ 03C3	μ 03BC	τ 03C4	Φ 03A6	Θ 0398	Ω 03A9	δ 03B4	∞ 221E	φ 03C6	ε 03B5	∩ 2229
F0	≡ 2261	± 00B1	≥ 2265	≤ 2264	∫ 2320	J 2321	÷ 00F7	≈ 2248	° 00B0	• 2219	• 00B7	✓ 221A	" 207F	² 00B2	■ 25A0	□ 00A0

5.2.7 PC852 : Slavonic (80H – FFH)

	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
80	Ç 00C7	ü 00FC	é 00E9	â 00E2	ä 00E4	û 016F	ć 0107	ç 00E7	ł 0142	ë 00EB	ő 0150	ó 0151	î 00EE	ž 0179	Ä 00C4	Ć 0106
90	É 00C9	Í 0139	Í 013A	ô 00F4	ö 00F6	ı 013D	ı 013E	š 015A	ś 015B	Ö 00D6	Ü 00DC	Ť 0164	ť 0165	Ł 0141	×	Č 010D
A0	á 00E1	í 00ED	ó 00F3	ú 00FA	À 0104	ą 0105	Ž 017D	ž 017E	Ł 0118	ę 0119	┐ 00AC	ž 017A	Č 010C	š 015F	« 00AB	» 00BB
B0	 2591	 2592	 2593	 2502	└ 2524	Á 00C1	Ä 00C2	Ë 011A	Ş 015E	≡ 2563	≡ 2551	≡ 2557	≡ 255D	≡ 017B	≡ 017C	└ 2510
C0	L 2514	└ 2534	└ 252C	└ 251C	— 2500	└ 253C	Ä 0102	ä 0103	Ł 255A	└ 2554	└ 2569	└ 2566	└ 2560	└ 2550	└ 256C	≡ 00A4
D0	đ 0111	Đ 0110	Đ 010E	È 00CB	đ 010F	Ň 0147	Í 00CD	Î 00CE	ě 011B	└ 2518	└ 250C	 2588	 2584	Ť 0162	Ů 016E	■ 2580
E0	Ó 00D3	ß 00DF	Ö 00D4	Ň 0143	ň 0144	ň 0148	š 0160	š 0161	Ř 0154	Ú 00DA	ř 0155	Ú 0170	Ý 00FD	Ý 00DD	ť 0163	´ 00B4
F0	— 00AD	ˆ 02DD	ˆ 02DB	ˆ 02C7	ˆ 02D8	Š 00A7	÷ 00F7	ˆ 0038	° 00B0	ˆ 00A8	ˆ 02D9	ú 0171	Ř 0158	ř 0159	■ 25A0	NESP 00A0

5.2.8 PC866 : Russia (80H – FFH)

	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
80	А 0410	Б 0411	В 0412	Г 0413	Д 0414	Е 0415	Ж 0416	З 0417	И 0418	Й 0419	К 041A	Л 041B	М 041C	Н 041D	О 041E	П 041F
90	Р 0420	С 0421	Т 0422	У 0423	Ф 0424	Х 0425	Ц 0426	Ч 0427	Ш 0428	Щ 0429	Ъ 042A	Ы 042B	Ь 042C	Э 042D	Ю 042E	Я 042F
A0	а 0430	б 0431	в 0432	г 0433	д 0434	е 0435	ж 0436	з 0437	и 0438	й 0439	к 043A	л 043B	м 043C	н 043D	о 043E	п 043F
B0	 2591	 2592	 2593	 2502	 2524	 2561	 2562	 2556	 2555	 2563	 2551	 2557	 255D	 255C	 255B	 2510
C0	L 2514	L 2534	T 252C	 251C	— 2500	† 253C	† 255E	† 255F	† 255A	† 2554	† 2569	† 2566	† 2560	= 2550	† 256C	† 2567
D0	† 2568	† 2564	† 2565	† 2559	† 2558	† 2552	† 2553	† 256B	† 256A	† 2518	† 250C	■ 2588	■ 2584	■ 258C	■ 2590	■ 2580
E0	р 0440	с 0441	т 0442	у 0443	ф 0444	х 0445	ц 0446	ч 0447	ш 0448	щ 0449	ъ 044A	ы 044B	ь 044C	э 044D	ю 044E	я 044F
F0	Ё 0401	ё 0451	Є 0404	е 0454	İ 0407	ı 0457	Ÿ 040E	ÿ 045E	° 00B0	· 2219	· 00B7	√ 221A	№ 2116	※ 00A4	■ 25A0	<u>NBSP</u> 00A0

5.2.9 PC858 : Euro (80H – FFH)

	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
80	Ç 00C7	ü 00FC	é 00E9	â 00E2	ä 00E4	à 00E0	å 00E5	ç 00E7	ê 00EA	è 00EB	è 00E8	ï 00EF	î 00EE	ì 00EC	Ä 00C4	Å 00C5
90	É 00C9	æ 00E6	Æ 00C6	ô 00F4	ö 00F6	ò 00F2	û 00FB	ù 00F9	ÿ 00FF	Ö 00D6	Ü 00DC	ø 00F8	£ 00A3	Ø 00D8	× 00D7	f 0192
A0	á 00E1	í 00ED	ó 00F3	ú 00FA	ñ 00F1	Ñ 00D1	ª 00AA	º 00BA	¿ 00BF	® 00AE	¬ 00AC	¼ 00BD	½ 00BC	¡ 00A1	« 00AB	» 00BB
B0	 2591	 2592	 2593	 2502	 2524	Á 00C1	Ä 00C2	À 00C0	© 00A9	† 2563	† 2551	† 2557	† 255D	† 00A2	† 00A5	 2510
C0	L 2514	L 2534	T 252C	 251C	— 2500	† 253C	ä 00E3	Ä 00C3	† 255A	† 2554	† 2569	† 2566	† 2560	= 2550	† 256C	※ 00A4
D0	Š 00F0	Đ 00D0	Ê 00CA	Ë 00CB	È 00C8	€ 20AC	Í 00CD	Î 00CE	Ï 00CF	† 2518	† 250C	■ 2588	■ 2584	† 00A6	† 00CC	■ 2580
E0	Ó 00D3	ß 00DF	Ö 00D4	Ò 00D2	ø 00F5	Ő 00D5	µ 00B5	þ 00FE	ƒ 00DE	Ú 00DA	Û 00DB	Ü 00D9	Ý 00FD	Ý 00DD	— 00AF	/ 00B4
F0	— 00AD	± 00B1	= 2017	¾ 00BE	¶ 00B6	§ 00A7	÷ 00F7	· 00B8	° 00B0	· 00A8	· 00B7	¹ 00B9	º 00B3	² 00B2	■ 25A0	<u>NBSP</u> 00A0

5.2.10 WPC1252 (80H – FFH)

	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
80	€ 20AC		/ 201A	f 0192	# 201E	... 2026	† 2020	‡ 2C21	ˆ 02C6	% 2030	Š 0160	< 2039	Œ 0152		Ž 017D	
90		\ 2018	/ 2019	" 201C	" 201D	• 2022	— 2013	— 2C14	˜ 02DC	™ 2122	Š 0161	> 203A	œ 0153		Ž 017E	Ÿ 0178
A0	<u>NBSP</u> 00A0	¡ 00A1	¢ 00A2	£ 00A3	¤ 00A4	¥ 00A5	¦ 00A6	§ 00A7	¨ 00A8	© 00A9	ª 00AA	« 00AB	¬ 00AC	­ 00AD	® 00AE	¯ 00AF
B0	° 00B0	± 00B1	² 00B2	³ 00B3	´ 00B4	µ 00B5	¶ 00B6	· 00B7	¸ 00B8	¹ 00B9	º 00BA	» 00BB	¼ 00BC	½ 00BD	¾ 00BE	¿ 00BF
C0	À 00C0	Á 00C1	Â 00C2	Ã 00C3	Ä 00C4	Å 00C5	Æ 00C6	Ç 00C7	È 00C8	É 00C9	Ê 00CA	Ë 00CB	Ì 00CC	Í 00CD	Î 00CE	Ï 00CF
D0	Ð 00D0	Ñ 00D1	Ò 00D2	Ó 00D3	Ô 00D4	Õ 00D5	Ö 00D6	× 00D7	Ø 00D8	Ù 00D9	Ú 00DA	Û 00DB	Ü 00DC	Ý 00DD	Þ 00DE	ß 00DF
E0	à 00E0	á 00E1	â 00E2	ã 00E3	ä 00E4	å 00E5	æ 00E6	ç 00E7	è 00E8	é 00E9	ê 00EA	ë 00EB	ì 00EC	í 00ED	î 00EE	ï 00EF
F0	ñ 00F0	ñ 00F1	ò 00F2	ó 00F3	ô 00F4	õ 00F5	ö 00F6	÷ 00F7	ø 00F8	ù 00F9	ú 00FA	û 00FB	ü 00FC	ý 00FD	þ 00FE	ÿ 00FF

5.2.11 PC737 : Greek (80H – FFH)

	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
80	Α 0391	Β 0392	Γ 0393	Δ 0394	Ε 0395	Ζ 0396	Η 0397	Θ 0398	Ι 0399	Κ 039A	Λ 039B	Μ 039C	Ν 039D	Ξ 039E	Ο 039F	Π 03A0
90	Ρ 03A1	Σ 03A3	Τ 03A4	Υ 03A5	Φ 03A6	Χ 03A7	Ψ 03A8	Ω 03A9	α 03B1	β 03B2	γ 03B3	δ 03B4	ε 03B5	ζ 03B6	η 03B7	θ 03B8
A0	ι 03B9	κ 03BA	λ 03BB	μ 03BC	ν 03BD	ξ 03BE	ο 03BF	π 03C0	ρ 03C1	σ 03C3	ς 03C2	τ 03C4	υ 03C5	φ 03C6	χ 03C7	ψ 03C8
B0				 2502	 2524	 2561	 2562	 2556	 2555	 2563	 2551	 2557	 255D	 255C	 255B	 2510
C0	┐ 2514	┐ 2534	┐ 252C	┐ 251C	┐ 2500	┐ 253C	┐ 255E	┐ 253F	┐ 255A	┐ 2554	┐ 2569	┐ 2566	┐ 2560	= 2550	┐ 256C	┐ 2567
D0	┐ 2568	┐ 2564	┐ 2565	┐ 2559	┐ 2558	┐ 2552	┐ 2553	┐ 253B	┐ 256A	┐ 2518	┐ 250C	■ 2588	■ 2584	■ 258C	■ 2590	■ 2580
E0	ω 03C9	α 03AC	ε 03AD	η 03AE	ι 03CA	ί 03AF	ό 03CC	ύ 03CD	ϋ 03CB	ώ 03CE	Α 0386	Ε 0388	Η 0389	Ι 038A	Ο 038C	Υ 038E
F0	Ω 038F	± 00B1	≥ 2265	≤ 2264	Ï 03AA	Ÿ 03AB	÷ 00F7	≈ 2248	· 2219	£ 00A3	· 00B7	√ 221A	² 207F	² 00B2	■ 25A0	<u>NBSP</u> 00A0

5.2.12 WPC1257 (80H – FFH)

	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
80	€ 20AC		ƒ 201A		„ 201E	… 2026	† 2020	‡ 2021		‰ 2030		< 2039		… 00A8	∇ 02C7	‡ 00B8
90		ˆ 2018	ˆ 2019	ˆ 201C	ˆ 201D	• 2022	— 2013	— 2014		™ 2122		> 203A		— 00AF	ˆ 02DB	
A0	<u>NBSP</u> 00A0		¢ 00A2	£ 00A3	¤ 00A4		¦ 00A6	§ 00A7	ø 00D8	© 00A9	® 0156	« 00AB	¬ 00AC	— 00AD	® 00AE	Æ 00C6
B0	° 00B0	± 00B1	² 00B2	³ 00B3	´ 00B4	µ 00B5	¶ 00B6	· 00B7	ø 00F8	¹ 00B9	² 0157	» 00BB	¼ 00BC	½ 00BD	¾ 00BE	æ 00E6
C0	À 0104	Á 012E	Â 0100	Ã 0106	Ä 00C4	Å 00C5	Ê 0118	Ë 0112	Č 010C	É 00C9	Ž 0179	Ê 0116	Ç 0122	Ë 0136	Î 012A	Ï 013B
D0	Š 0160	Ň 0143	Ň 0145	Ó 00D3	Ô 014C	Õ 00D5	Ö 00D6	× 00D7	Ů 0172	Ł 0141	Ś 015A	Ů 016A	Ü 00DC	Ž 017B	Ž 017D	ß 00DF
E0	ą 0105	ı 012F	ā 0101	ć 0107	ä 00E4	å 00E5	ę 0119	ē 0113	č 010D	é 00E9	ž 017A	ê 0117	ğ 0123	ķ 0137	ī 012B	ĵ 013C
F0	š 0161	ń 0144	ŋ 0146	ó 00F3	ô 014D	õ 00F5	ö 00F6	÷ 00F7	ů 0173	ł 0142	ś 015B	ū 016B	ü 00FC	ž 017C	ž 017E	• 02D9

5.2.13 PC862 (80H – FFH)

	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
80	ℵ 05D0	⌋ 05D1	⌋ 05D2	⌋ 05D3	⌋ 05D4	⌋ 05D5	⌋ 05D6	⌋ 05D7	⌋ 05D8	⌋ 05D9	⌋ 05DA	⌋ 05DB	⌋ 05DC	⌋ 05DD	⌋ 05DE	⌋ 05DF
90	⌋ 05E0	⌋ 05E1	⌋ 05E2	⌋ 05E3	⌋ 05E4	⌋ 05E5	⌋ 05E6	⌋ 05E7	⌋ 05E8	⌋ 05E9	⌋ 05EA	¢ 00A2	£ 00A3	¥ 00A5	₹ 20A7	f 0192
A0	á 00E1	í 00ED	ó 00F3	ú 00FA	ñ 00F1	Ñ 00D1	ª 00AA	º 00BA	¿ 00BF	¿ 2310	¿ 00AC	¼ 00BD	½ 00BC	ı 00A1	« 00AB	» 00BB
B0	⌋ 2591	⌋ 2592	⌋ 2593	⌋ 2502	⌋ 2524	⌋ 2561	⌋ 2562	⌋ 2556	⌋ 2555	⌋ 2563	⌋ 2551	⌋ 2557	⌋ 255D	⌋ 255C	⌋ 255B	⌋ 2510
C0	⌋ 2514	⌋ 2534	⌋ 252C	⌋ 251C	⌋ 2500	⌋ 253C	⌋ 255E	⌋ 253F	⌋ 255A	⌋ 2554	⌋ 2569	⌋ 2566	⌋ 2560	⌋ 2550	⌋ 256C	⌋ 2567
D0	⌋ 2568	⌋ 2564	⌋ 2565	⌋ 2559	⌋ 2558	⌋ 2552	⌋ 2553	⌋ 253B	⌋ 256A	⌋ 2518	⌋ 250C	⌋ 2588	⌋ 2584	⌋ 258C	⌋ 2590	⌋ 2580
E0	α 03B1	β 00DF	Γ 0393	Π 03C0	Σ 03A3	σ 03C3	μ 00B5	τ 03D4	Φ 03A6	Θ 0398	Ω 03A9	δ 03B4	∞ 221E	φ 03C6	ε 03B5	Π 2229
F0	≡ 2261	± 00B1	≥ 2265	≤ 2264	∫ 2320	∫ 2321	÷ 00F7	≈ 2248	° 00B0	· 2219	· 00B7	√ 221A	² 207F	² 00B2	■ 25A0	<u>NBSP</u> 00A0

5.2.14 WPC1250 (80H – FFH)

	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
80	€ 20AC		ƒ 201A		„ 201E	… 2026	† 2020	‡ 2C21		‰ 2030	Š 0160	< 2039	Ś 015A	Ť 0164	Ž 017D	Ž 0179
90		˘ 2018	˙ 2019	˚ 201C	˛ 201D	• 2022	– 2013	— 2C14		™ 2122	Š 0161	> 203A	Ś 015B	ť 0165	ž 017E	ž 017A
A0	NBSP 00A0	ˆ 02C7	ˇ 02D8	Ł 0141	• 00A4	Ą 0104	ı 00A6	Œ 00A7	ˆ 00A8	© 00A9	Ş 015E	« 00AB	¬ 00AC	– 00AD	® 00AE	Ž 017B
B0	° 00B0	± 00B1	˘ 02DB	ł 0142	´ 00B4	µ 00B5	¶ 00B6	· 00B7	˘ 00B8	ą 0105	Ş 015F	» 00BB	İ 013D	ˆ 02DD	İ 013E	ž 017C
C0	Ř 0154	Á 00C1	Ä 00C2	Ǻ 0102	Ǻ 00C4	Í 0139	Ć 0106	Ç 00C7	Č 010C	É 00C9	Ě 0118	Ě 00CB	Ě 011A	Í 00CD	Î 00CE	Ď 010E
D0	Đ 0110	Ň 0143	Ň 0147	Ó 00D3	Õ 00D4	Õ 0150	Ö 00D6	× 00D7	Ř 0158	Ů 016E	Ú 00DA	Ů 0170	Ů 00DC	Ý 00DD	Ț 0162	ß 00DF
E0	ř 0155	á 00E1	ä 00E2	ǻ 0103	ǻ 00E4	í 013A	ć 0107	ç 00E7	č 010D	é 00E9	ě 0119	ě 00EB	ě 011B	í 00ED	î 00EE	ď 010F
F0	đ 0111	ň 0144	ň 0148	ó 00F3	õ 00F4	õ 0151	ö 00F6	÷ 00F7	ř 0159	ů 016F	ú 00FA	ú 0171	ü 00FC	ý 00FD	ț 0163	· 02D9

5.2.15 WPC1251 (80H – FFH)

	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
80	Ђ 0402	Ѓ 0403	Ѕ 201A	Ї 0453	„ 201E	… 2026	† 2020	‡ 2C21	€ 20AC	‰ 2030	Љ 0409	< 2039	Њ 040A	Ќ 040C	Ѓ 040B	Џ 040F
90	ђ 0452	ѓ 2018	ѕ 2019	ї 201C	„ 201D	• 2022	– 2013	— 2C14		™ 2122	Љ 0459	> 203A	Њ 045A	Ќ 045C	ђ 045B	Џ 045F
A0	NBSP 00A0	Ѕ 040E	Ѕ 045E	Ј 0408	• 00A4	Ѓ 0490	ı 00A6	Œ 00A7	Ё 0401	© 00A9	Є 0404	« 00AB	¬ 00AC	– 00AD	® 00AE	Ї 0407
B0	° 00B0	± 00B1	Ї 0406	ї 0456	Ѓ 0491	µ 00B5	¶ 00B6	· 00B7	ё 0451	№ 2116	є 0454	» 00BB	Ј 0458	Ѕ 0405	Ѕ 0455	і 0457
C0	А 0410	В 0411	В 0412	Г 0413	Д 0414	Е 0415	Ж 0416	З 0417	И 0418	Й 0419	К 041A	Л 041B	М 041C	Н 041D	О 041E	П 041F
D0	Р 0420	С 0421	Т 0422	У 0423	Ф 0424	Х 0425	Ц 0426	Ч 0427	Ш 0428	Щ 0429	Ъ 042A	Ы 042B	Ь 042C	Э 042D	Ю 042E	Я 042F
E0	а 0430	б 0431	в 0432	г 0433	д 0434	е 0435	ж 0436	з 0437	и 0438	й 0439	к 043A	л 043B	м 043C	н 043D	о 043E	п 043F
F0	р 0440	с 0441	т 0442	у 0443	ф 0444	х 0445	ц 0446	ч 0447	ш 0448	щ 0449	ъ 044A	ы 044B	ь 044C	э 044D	ю 044E	я 044F

5.2.16 WPC1253 (80H – FFH)

	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
80	€ 20AC		ı 201A	f 0192	" 201E	... 2026	† 2020	‡ 2C21		% 2030		< 2039				
90		˘ 2018	ı 2019	ˆ 201C	" 201D	• 2022	— 2013	— 2C14		™ 2122		> 203A				
A0	<u>NBSP</u> 00A0	ˆ 0385	ˆ 0386	£ 00A3	* 00A4	¥ 00A5	 00A6	§ 00A7	ˆ 00A8	© 00A9		« 00AB	¬ 00AC	— 00AD	® 00AE	— 2015
B0	° 00B0	± 00B1	² 00B2	³ 00B3	¼ 0384	µ 00B5	¶ 00B6	· 00B7	ˆ 0388	ˆ 0389	ˆ 038A	» 00BB	ˆ 038C	¼ 00BD	ˆ 038E	ˆ 038F
C0	ı 0390	ˆ 0391	ˆ 0392	ˆ 0393	ˆ 0394	ˆ 0395	ˆ 0396	ˆ 0397	ˆ 0398	ˆ 0399	ˆ 039A	ˆ 039B	ˆ 039C	ˆ 039D	ˆ 039E	ˆ 039F
D0	Π 03A0	P 03A1		Σ 03A3	T 03A4	Y 03A5	Φ 03A6	X 03A7	Ψ 03A8	Ω 03A9	İ 03AA	ÿ 03AB	ó 03AC	é 03AD	ή 03AE	ί 03AF
E0	ı 03B0	α 03B1	β 03B2	γ 03B3	δ 03B4	ε 03B5	ζ 03B6	η 03B7	θ 03B8	ι 03B9	κ 03BA	λ 03BB	μ 03BC	ν 03BD	ξ 03BE	ο 03BF
F0	Π 03C0	ρ 03C1	ς 03C2	σ 03C3	τ 03C4	υ 03C5	φ 03C6	χ 03C7	ψ 03C8	ω 03C9	ι 03CA	ı 03CB	ó 03CC	ı 03CD	ω 03CE	

5.2.17 WPC1255 (80H – FFH)

	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
80	€ 20AC		ı 201A	f 0192	" 201E	... 2026	† 2020	‡ 2C21	ˆ 02C6	% 2030		< 2039				
90		˘ 2018	ı 2019	ˆ 201C	" 201D	• 2022	— 2013	— 2C14	ˆ 02DC	™ 2122		> 203A				
A0	<u>NBSP</u> 00A0	ı 00A1	ı 00A2	£ 00A3	ˆ 20AA	¥ 00A5	 00A6	§ 00A7	ˆ 00A8	© 00A9	× 00D7	« 00AB	¬ 00AC	— 00AD	® 00AE	— 00AF
B0	° 00B0	± 00B1	² 00B2	³ 00B3	¼ 00B4	µ 00B5	¶ 00B6	· 00B7	ˆ 00B8	ˆ 00B9	÷ 00F7	» 00BB	¼ 00BC	½ 00BD	¾ 00BE	¿ 00BF
C0	ı 05B0	ˆ 05B1	ˆ 05B2	ˆ 05B3	ˆ 05B4	ˆ 05B5	ˆ 05B6	ˆ 05B7	ˆ 05B8	ˆ 05B9		ˆ 05BB	ˆ 05BC	ı 05BD	— 05BE	— 05BF
D0	 05C0	ˆ 05C1	ˆ 05C2	ˆ 05C3	ˆ 05F0	ˆ 05F1	ˆ 05F2	ˆ 05F3	ˆ 05F4							
E0	ˆ 05D0	ˆ 05D1	ˆ 05D2	ˆ 05D3	ˆ 05D4	ˆ 05D5	ˆ 05D6	ˆ 05D7	ˆ 05D8	ˆ 05D9	ˆ 05DA	ˆ 05DB	ˆ 05DC	ˆ 05DD	ˆ 05DE	ˆ 05DF
F0	ˆ 05E0	ˆ 05E1	ˆ 05E2	ˆ 05E3	ˆ 05E4	ˆ 05E5	ˆ 05E6	ˆ 05E7	ˆ 05E8	ˆ 05E9	ˆ 05EA			<u>LTR</u> 200E	<u>RTL</u> 200F	

5.2.18 PC775 : Baltic (80H – FFH)

	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
80	Ć 0106	Û 00FC	É 00E9	Ā 0101	Ä 00E4	Ġ 0123	Å 00E5	Č 0107	Ł 0142	Ē 0113	Ŗ 0156	ŗ 0157	Ī 012B	Ž 0179	Ä 00C4	Å 00C5
90	É 00C9	æ 00E6	Æ 00C6	ō 014D	ö 00F6	Ģ 0122	Ķ 00A2	Š 015A	Ś 015B	Ö 00D6	Ü 00DC	ø 00F8	£ 00A3	Ø 00D8	×	※
A0	Ā 0100	Ī 012A	ó 00F3	Ž 017B	ž 017C	Ž 017A	" 201D	 00A6	@ 00A9	® 00AE	¬ 00AC	½ 00BD	¼ 00BC	Ł 0141	« 00AB	» 00BB
B0	▨ 2591	▩ 2592	▪ 2593	 2502	└ 2524	Ł 0104	Č 010C	Ł 0118	Ē 0116	Ł 2563	Ł 2551	Ł 2557	Ł 255D	Ł 012E	Š 0160	Ł 2510
C0	Ł 2514	└ 2534	└ 252C	└ 251C	— 2500	└ 253C	Ł 0172	Ł 016A	Ł 255A	Ł 2554	Ł 2569	Ł 2566	Ł 2560	Ł 2550	Ł 256C	Ž 017D
D0	ą 0105	č 010D	ę 0119	ė 0117	į 012F	š 0161	ų 0173	ū 016B	ž 017E	Ł 2518	Ł 250C	▨ 2588	▩ 2584	▪ 258C	▫ 2590	▬ 2580
E0	Ó 00D3	ß 00DF	ō 014C	ń 0143	õ 00F5	õ 00D5	µ 00B5	ñ 0144	ķ 0136	ķ 0137	Ł 013B	Ł 013C	ņ 0146	ē 0112	ņ 0145	' 2019
F0	— 00AD	± 00B1	ˆ 201C	¾ 00BE	Œ 00B6	Š 00A7	÷ 00F7	" 201E	° 00B0	• 2219	• 00B7	± 00B9	§ 00B3	² 00B2	▨ 25A0	<u>NBSP</u> 00A0

5.2.19 PC864 : Arabic (80H – FFH)

	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
80	° 00B0	• 00B7	• 2219	✓ 221A	▨ 2592	— 2500	 2502	└ 253C	└ 2524	└ 252C	└ 251C	└ 2534	└ 2510	└ 250C	└ 2514	└ 2518
90	β 03B2	∞ 221E	φ 03C6	± 00B1	½ 00BD	¼ 00BC	≈ 2248	« 00AB	» 00BB	لا FEF7	لا FEF8			لا FEFB	لا FEFC	ن F8FC
A0		- 00AD	آ FE82	£ 00A3	¤ 00A4	أ FE84		€ 20AC	ل FE8E	ب FE8F	ت FE95	ذ FE99	، 080C	ج FE9D	ح FEA1	خ FEA5
B0	• 0660	ا 0661	ب 0662	ت 0663	ث 0664	ج 0665	د 0666	هـ 0667	و 0668	ز 0669	ف FED1	؛ 061B	س F8F6	ش F8F5	ص F8F4	؟ 061F
C0	ظ 00A2	ع FE80	أ FE81	إ FE83	ؤ FE85	ع FECA	ذ FE8B	ا FE8D	ب FE91	ة FE93	ت FE97	ث FE9B	ج FE9F	ح FEA3	خ FEA7	د FEA9
D0	ذ FEAB	ر FEAD	ز FEAF	س FEB3	ش FEB7	ص FEB8	ض FEBF	ط FEC3	ظ FEC7	ع FECB	غ FECF	ا 00A6	ب 00AC	÷ 00F7	×	ع FEC9
E0	— 0640	ف FED3	ق FED7	ك FED8	ل FEDF	م FEE3	ن FEE7	هـ FEEB	و FEED	ي FEFF	ي FEF3	ض F8F7	ج FECC	غ FECE	غ FECD	م FEE1
F0	ـ FE7D	ّ FE7C	ن FEE5	هـ FEE9	هـ FEEC	ح FEF0	ي FEF2	غ FED0	ق FED5	لا FEF5	لا FEF6	ل FEDD	ك FED9	ي FEF1	▨ 25A0	

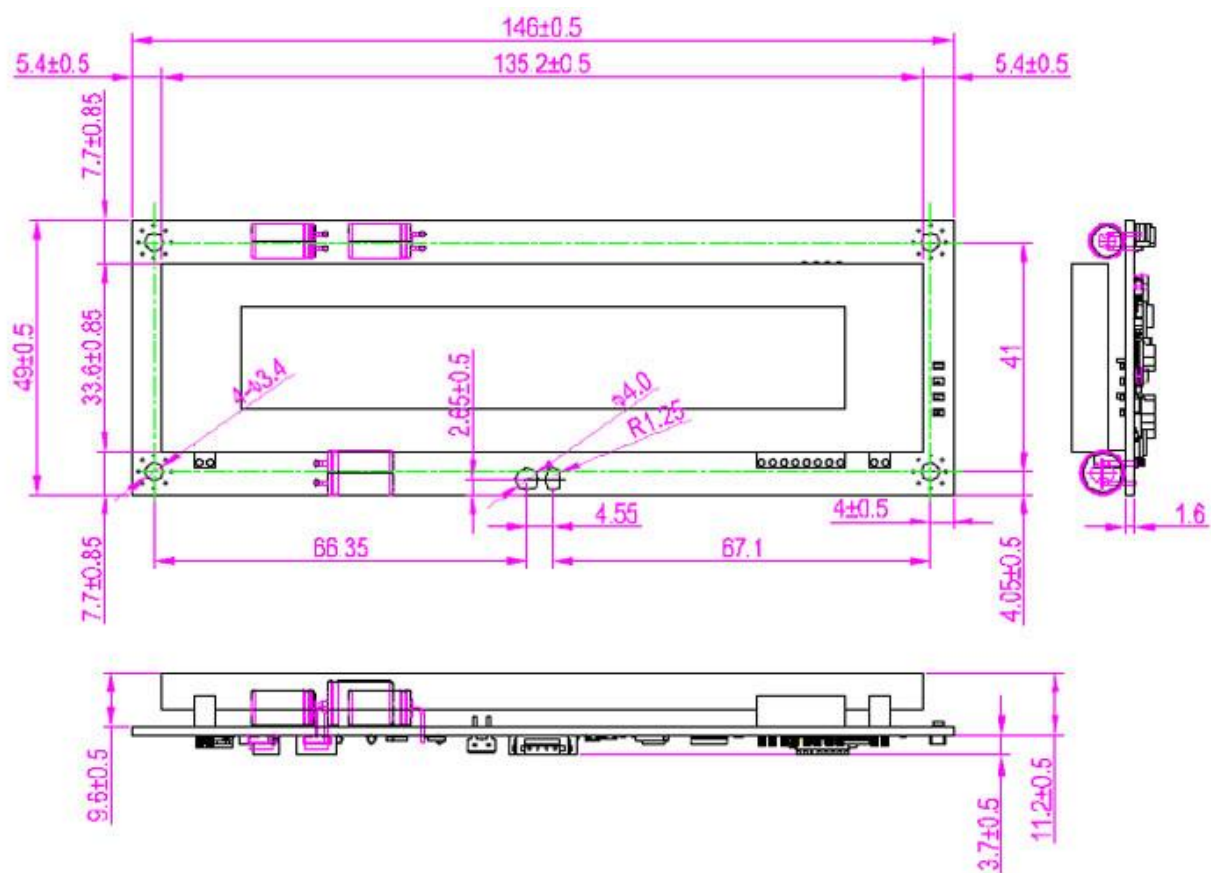
5.2.20 ISO8859-7 (80H – FFH)

	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
80	€ 20AC															
90																
A0	NBSP 00A0	' 02BD	' 02BC	£ 00A3	€ 20AC		 00A6	§ 00A7	° 00A8	@ 00A9		« 00AB	¬ 00AC	– 00AD		— 2015
B0	° 00B0	± 00B1	² 00B2	³ 00B3	/ 0384	´ 0385	À 0386	· 00B7	Ê 0388	Ë 0389	Ì 038A	» 00BB	Ö 038C	¼ 00BD	Ý 038E	Ω 038F
C0	Í 0390	Â 0391	Ë 0392	Ï 0393	Δ 0394	Ε 0395	Ζ 0396	Η 0397	Θ 0398	Ι 0399	Κ 039A	Λ 039B	Μ 039C	Ν 039D	Ξ 039E	Ο 039F
D0	Π 03A0	Ρ 03A1		Σ 03A3	Τ 03A4	Υ 03A5	Φ 03A6	Χ 03A7	Ψ 03A8	Ω 03A9	Ϊ 03AA	Ϋ 03AB	ά 03AC	έ 03AD	ή 03AE	ί 03AF
E0	ύ 03B0	α 03B1	β 03B2	γ 03B3	δ 03B4	ε 03B5	ζ 03B6	η 03B7	θ 03B8	ι 03B9	κ 03BA	λ 03BB	μ 03BC	ν 03BD	ξ 03BE	ο 03BF
F0	π 03C0	ρ 03C1	ς 03C2	σ 03C3	τ 03C4	υ 03C5	φ 03C6	χ 03C7	ψ 03C8	ω 03C9	ϊ 03CA	ϋ 03CB	ό 03CC	ύ 03CD	ώ 03CE	

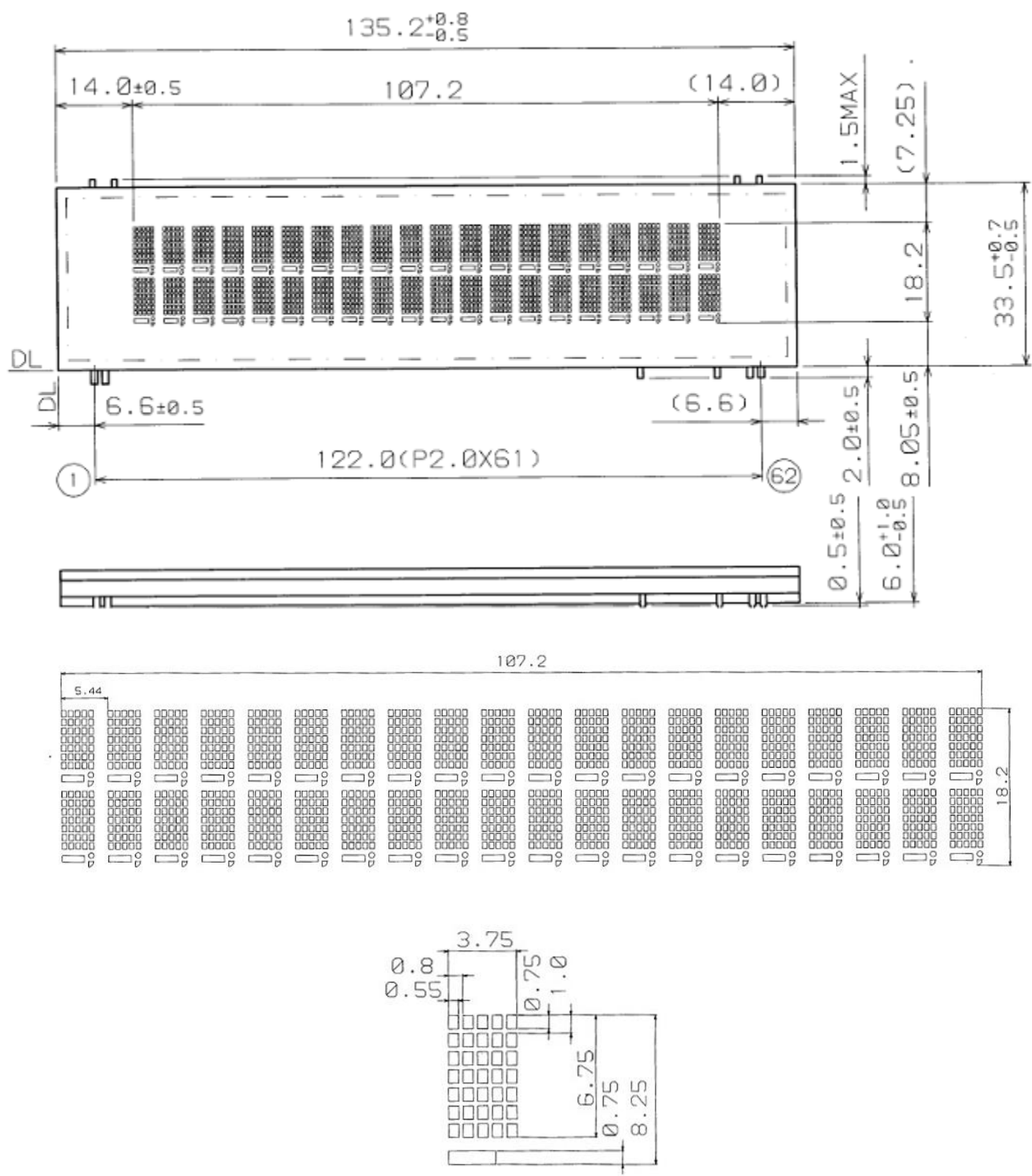
5.2.21 PC857 : Turkish (80H – FFH)

	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
80	Ç 00C7	ü 00FC	é 00E9	â 00E2	ä 00E4	à 00E0	å 00E5	ç 00E7	ê 00EA	ë 00EB	è 00E8	ï 00EF	î 00EE	ı 0131	Ä 00C4	Å 00C5
90	É 00C9	æ 00E6	Æ 00C6	ô 00F4	ö 00F6	ò 00F2	û 00FB	ù 00F9	İ 0130	Ö 00D6	Ü 00DC	ø 00F8	£ 00A3	Ø 00D8	Ş 015E	Ş 015F
A0	á 00E1	í 00ED	ó 00F3	ú 00FA	ñ 00F1	Ñ 00D1	Ģ 011E	ğ 011F	ı 00BF	® 00AE	¬ 00AC	¼ 00BD	½ 00BC	ı 00A1	« 00AB	» 00BB
B0	▨ 2591	▨ 2592	▨ 2593	 2502	 2524	Á 00C1	Ã 00C2	À 00C0	@ 00A9	¶ 2563	¶ 2551	¶ 2557	¶ 255D	¢ 00A2	¥ 00A5	¿ 2510
C0	Ł 2514	Ł 2534	Ł 252C	Ł 251C	— 2500	Ł 253C	ã 00E3	Ä 00C3	Ł 255A	Ł 2554	Ł 2569	Ł 2566	Ł 2560	= 2550	Ł 256C	» 00A4
D0	° 00BA	ª 00AA	Ê 00CA	Ê 00CB	È 00C8	€ 20AC	Í 00CD	Î 00CE	Ï 00CF	¸ 2518	¸ 250C	▨ 2588	▨ 2584	ı 00A6	İ 00CC	▨ 2580
E0	Ó 00D3	ß 00DF	Ö 00D4	Ò 00D2	ø 00F5	Ő 00D5	µ 00B5		× 00D7	Ú 00DA	Û 00DB	Ü 00D9	ì 00EC	ý 00FF	— 00AF	/ 00B4
F0	— 00AD	± 00B1		¾ 00BE	¶ 00B6	§ 00A7	÷ 00F7	¸ 00B8	° 00B0	° 00A8	· 00B7	¼ 00B9	³ 00B3	² 00B2	▨ 25A0	NBSP 00A0

6. Display Module Dimension



7. Tube Dimension (in mm)



8. Default Setting Commands

8.1 Baud rate setting command

Code (hex)	Function description
[02h][05h][42h] n [03h]	Change the baud rate setting

n (hex)	Baud rate
30h	4800
31h	9600
32h	19200
33h	38400
39h	115200

8.2 Parity check setting command

Code (hex)	Function description
[02h][05h][50h] n [03h]	Change the format setting

n (hex)	Format
30h	N, 8, 1
31h	E, 8, 1
32h	O, 8, 1

8.3 Data Length setting command

Code (hex)	Function description
[02h][05h][4Ch] n [03h]	Change the data length setting

n (hex)	Format
37h	7 bits
38h	8 bits

8.4 Select international character set command

Code (hex)	Function description
[02h][05h][53h] n [03h]	Change international character set

n (hex)	Character set (20h – 7Fh)	Code table (80h - FFh)
30h	U.S.A.	PC437 (USA, Standard Europe)
31h	France	PC858 (Multilingual + Euro Symbol)
32h	Germany	
33h	U.K.	
34h	Denmark I	
35h	Sweden	
36h	Italy	
37h	Spain	
38h	Japan	Katakana
39h	Norway	PC858
3Ah	Denmark II	
3Bh	Salween	
3Ch	Russian	
3Dh	U.S.A.	PC860 (Portuguese)
3Eh	U.K.	Greek
3Fh	U.S.A.	PC852 (Hungary)
40h	U.S.A.	PC862 (Hebrew)
41h	U.S.A.	PC863 (Canadian-France)
42h	U.S.A.	PC865 (Nordic)
43h	U.S.A.	PC866 (Cyrillic)
44h	U.S.A.	WPC1251 (Cyrillic)
45h	U.S.A.	WPC1252 (West European Latin)
46h	U.S.A.	WPC1255 (Hebrew)
47h	U.S.A.	WPC1257 (Baltic)
48h	U.S.A.	WPC1253 (Greek)
49h	U.S.A.	WPC1250 (East European Latin)

8.5 Select international character command

Code (hex)	Function description
[02h][05h][54h] n [03h]	Change international character set

n (hex)	International character set
00h	U.S.A.
01h	France
02h	Germany
03h	U.K.
04h	Denmark I
05h	Sweden
06h	Italy
07h	Spain
08h	Japan
09h	Norway
0Ah	Denmark II

8.6 Select code table command

Code (hex)	Function description
[02h][05h][55h] n [03h]	Change code page table

n (hex)	Character code table
00h	PC437 (USA, Standard Europe)
01h	Katakana (for Japan)
02h	PC850 (Multilingual)
03h	PC860 (Portuguese)
04h	PC863 (Canadian-French)
05h	PC865 (Nordic)
06h	Salween
07h	Russia
08h	Greek
09h	PC852 (Hungary)
0Ah	PC862 (Hebrew)
0Bh	PC866 (Cyrillic)
0Ch	WPC1251 (Cyrillic)
0Eh	WPC1255 (Hebrew)
0Fh	WPC1257 (Baltic)
10h	WPC1252 (West European Latin)
11h	WPC1253 (Greek)
12h	WPC1250(East European Latin)
13h	PC858 (Multilingual + Euro Symbol)

8.7 Command type setting command

Code (hex)	Function description
[02h][05h][43h] n [03h]	Change command type

n (hex)	Command
30h	DSP800
31h	ESC/POS
32h	POS7300
33h	ADM787
34h	AEDEX
35h	UTC/P
36h	UTC/S
37h	CD5220

8.8 Show firmware version

Code (hex)	Function description
[02h][05h][56h][01h][03h]	Show firmware version

8.9 Save current screen data as title data

Code (hex)	Function description
[02h][05h][08h][31h][03h]	Save current screen data as title data

8.10 Clear setup data

Code (hex)	Function description
[02h][05h][07h] n [03h]	Clear setup data in flash memory

n (hex)	Command
30h	Clear all setup data
31h	Clear others setup data exceed setup title data
32h	Clear setup title data only

8.11 Display restart

Code (hex)	Function description
[02h][05h][40h][30h][03h]	Display restart

Appendix A: Driver Installation

To download the most recent drivers and utilities, and obtain advice regarding the installation of your equipment, please visit the AURES Technical Support Website:

www.aures-support.com (French)

www.aures-support.com/en (English)

www.aures-support.com/de (German)

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Appendix B: Customer Display Command Settings

9. FEATURES

- (1) Data can be displayed on 20 columns x 2 lines.
- (2) Blue-green color and large characters are easy to read.
- (3) The commands modes, fonts, baud rate and other parameters are selected by software.
- (4) CD5220 / UTC / EMAX / ADM / EscPOS / DSP-800 emulation command sets.
- (5) User-defined characters can be downloaded
(for EscPOS /CD5220/DSP-800 command).
- (6) Provides an interface based on RS-232C or USB
(baud rate: 4800, 9600, 19200, 38400, 115200 bps).
- (7) Powered by 5V.