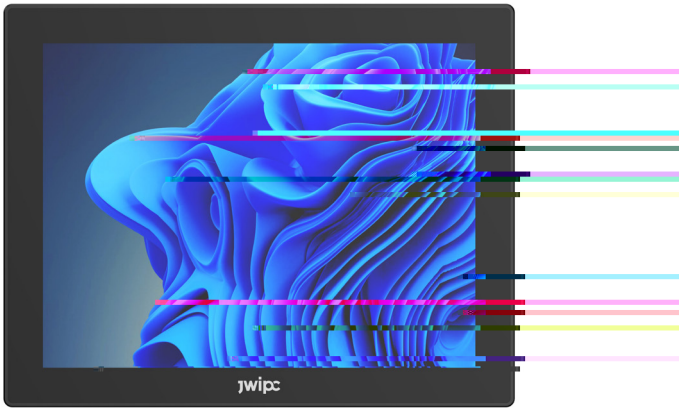
IVS



Version 1.0

- IVS-101
- IVS-104
- IVS-121
- IVS-150
- IVS-156
- IVS-170
- IVS-185
- IVS-215

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A

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⚠

ESD

(ESD, electrostatic sensitive devices)

ESD

- ESD
-
- ESD
- ESD
- ESD

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1.1

IVS Intel® Elkhart Lake / Alder Lake-U / H110

10.1 ” ~ 21.5 ”

1.2

1.2.1

- BIOS AMI UEFI BIOS
- W x H x D
  - IVS-101 275 x 194 x 71mm 79mm
  - IVS-104 275 x 222 x 71mm 79mm
  - IVS-121 298.5 x 237.5 x 71mm 79mm
  - IVS-150 360 x 284 x 71mm 79mm
  - IVS-156 398.4 x 250.8 x 71mm 79mm
  - IVS-170 391.4 x 326.4 x 71mm 79mm
  - IVS-185 470 x 290 x 71mm 79mm
  - IVS-215 532.5 x 324 x 71mm 79mm
- DC 12-36V / / /

1.2.2

	IVS-101/IVS-104/IVS-121/IVS-150/IVS-156/IVS-170/IVS-185/IVS-215		
CPU	Intel® Celeron® J6412	Intel® CoreTM i3-1215U/i5-1235U/ i7-1255U MAX 15W TDP	Intel® Core™ 6/7/8/9 i7/i5/i3 Pentium® / Celeron® LGA1151 type CPU Max 65W TDP
	1 x SO-DIMM DDR4-3200 MAX 16GB	1 x SO-DIMM DDR5-4800 MAX 32GB	1 x SO-DIMM DDR4-3200 MAX 16GB
	1 x M.2 2242/2280 SATA 1 x 7+15Pin SATA3.0	1 x M.2 2242/2280 Nvme x 7+15Pin SATA3.0	1 x M.2 2242/2280 SATA 1 x 7+15Pin SATA3.0
	1 x Intel I210AT 1 x Intel I226-v	3 x intel I226-V 1 x Intel I210AT 4 POE	
IO	2 x RS232/422/485 2 x RS232 4 x USB3.0 1 x 1 x HDMI1.4b	2 x RS232/422/485 2 x RS232 4 x USB3.2 1 x 1 x HDMI1.4b 1 x DP1.2	
	1 x M.2 Key E 2230 WiFi 6 1 x M.2 Key B 3052/3042 4G/5G		

1.2.3 LCD

- IVS-101
  - 16:10
  - 1280 x 800
  - 350 cd/m2
  - 1000:1
  - 25000
  - 85 ( ) 85 ( ) 85 ( ) 85 ( )

- IVS-104
  - 4:3
  - 1024 x 768
  - 350 cd/m2
  - 900:1
  - 50000
  - 75 ( ) 75 ( ) 75 ( ) 75 ( )
- IVS-121
  - 4:3
  - 1024 x 768
  - 500 cd/m2
  - 1200:1
  - 50000
  - 88 ( ) 88 ( ) 88 ( ) 88 ( )
- IVS-150
  - 4:3
  - 1024 x 768
  - 350 cd/m2
  - 1000:1
  - 50000
  - 89 ( ) 89 ( ) 89 ( ) 89 ( )
- IVS-156
  - 16:9
  - 1920 x 1080
  - 300 cd/m2
  - 800:1
  - 15000
  - 85 ( ) 85 ( ) 85 ( ) 85 ( )
- IVS-170
  - 5:4
  - 1280x1024
  - 250 cd/m2
  - 1000:1
  - 50000
  - 85 ( ) 85 ( ) 80 ( ) 80 ( )

- IVS-185
  - 16:9
  - 1920 x 1080
  - 250 cd/m2
  - 1000:1
  - 50000
  - 89 ( ) 89 ( ) 89 ( ) 89 ( )
- IVS-215
  - 16:9
  - 1920x1080
  - 250 cd/m2
  - 1000:1
  - 50000
  - 89 ( ) 89 ( ) 89 ( ) 89 ( )

1.2.4

- IVS-101
  - 10 5
  - 81% (>80%)
  - 5000 1000
- IVS-104
  - 10 5
  - 81% (>80%)
  - 5000 1000
- IVS-121
  - 10 5
  - 81% (>80%)
  - 5000 1000
- IVS-150
  - 10 5
  - 81% (>80%)
  - 5000 1000
- IVS-156
  - 10
  - 81% (>80%)
  - 5000 1000

- IVS-170
  - 10
  - 81% (>80%)
  - 5000 1000
- IVS-185
  - 10
  - 81% (>80%)
  - 5000 1000
- IVS-215
  - 10
  - 81% (>80%)
  - 5000 1000

1.2.5

- IVS-101/IVS-104/IVS-121/IVS-150
  - OP 0 ~ 50 ℃ 32~122 °F
    -20 ~ 60 ℃ -4 ~ 140 °F
  - 95% @ 40 ℃
  - NOP -20 ~ 60 ℃ -4 ~ 140 °F
  - OP 15g 11ms
  - OP 5~500Hz 1Grms
  - EMC CE Class A
  - IP IP65
- IVS-156/IVS-170/IVS-185/IVS-215
  - OP 0 ~ 50 ℃ 32~122 °F
  - 95% @ 40 ℃
  - NOP -20 ~ 60 ℃ -4 ~ 140 °F
  - OP 15g 11ms
  - OP 5~500Hz 1Grms
  - EMC CE Class A
  - IP IP65

1.2.6

- Windows 7
- Windows 10
- Windows 11
- Linux

1.3 I/O

1.3.1 I/O

IVS I/O 1.1

1.1 I/O

A B

C 4 x USB3.0 D ATX/AT

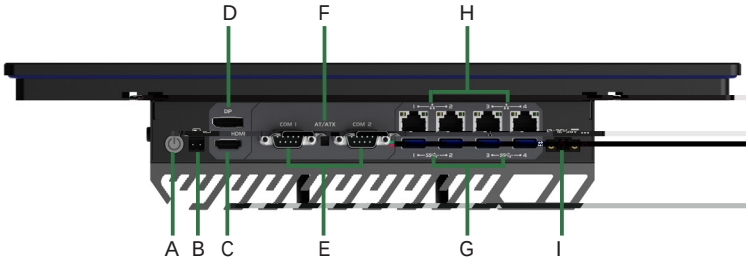
E 2 x RJ45

F 2 x COM RS232/422/485

G HDMI H DC IN

1.3.2 I/O

IVS I/O 1.2



1.2 I/O

A	B
C HDMI	D DP
E 2 x COM	RS232/422/485
F ATX/AT	G 4 x USB3.0
H 4 x RJ45	I DC IN

1.4

1.4.1 IVS-101

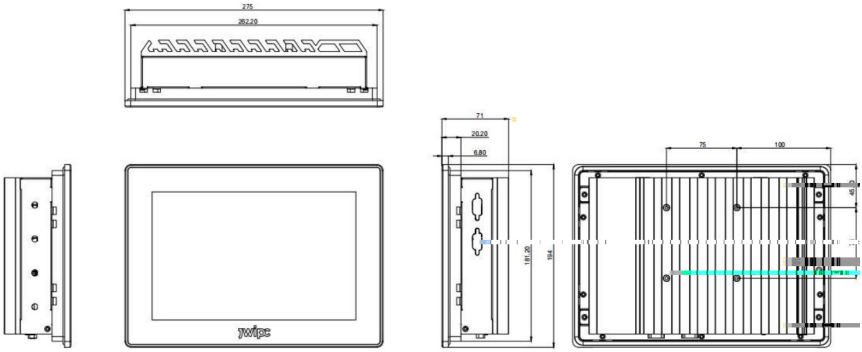
•

• W x H x D 275 x 194 x 71mm

+1.5 +1.5

• W x H x D 263 x 182 mm

-0 -0



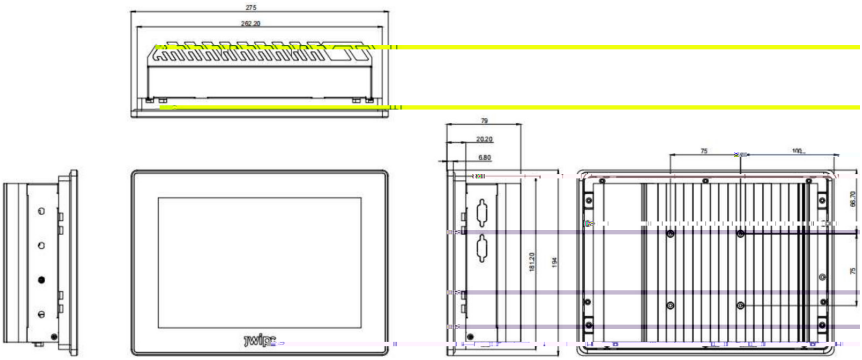
•

• W x H x D 275 x 194 x 79mm

+1.5 +1.5

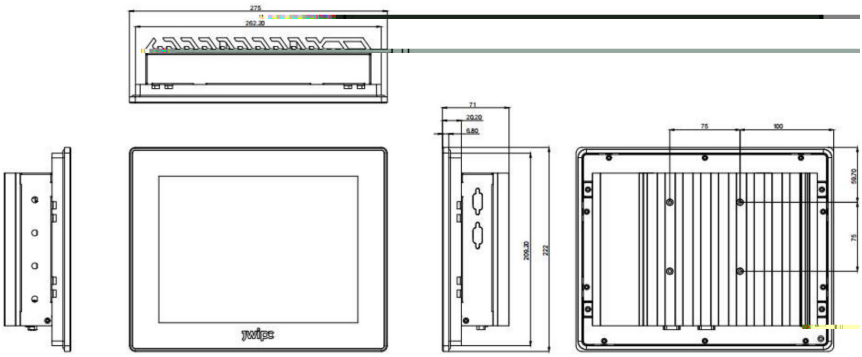
• W x H x D 263 x 182 mm

-0 -0

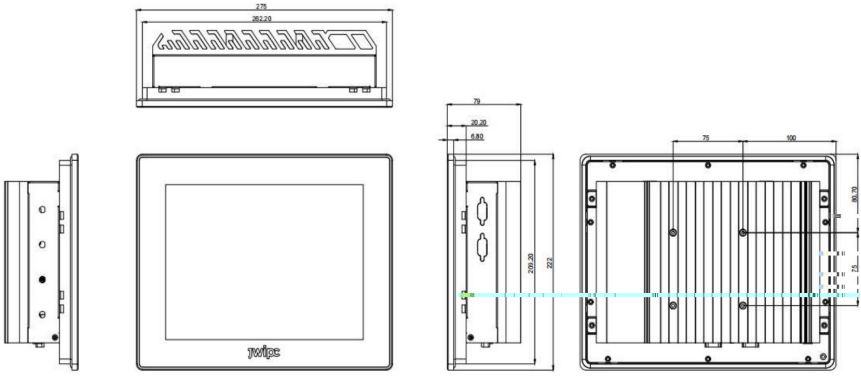


1.4.2 IVS-104

-
- W x H x D 275 x 222 x 71mm
- W x H x D 263 +1.5 -0 x 210 +1.5 -0 mm

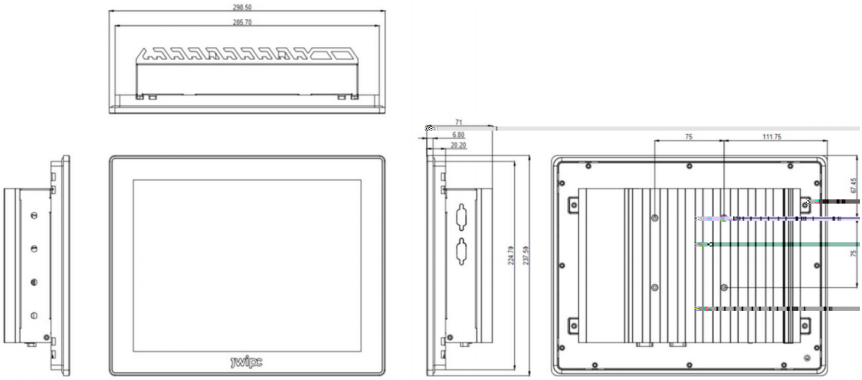


-
- W x H x D 275 x 222 x 79mm
- W x H x D 263 +1.5 -0 x 210 +1.5 -0 mm

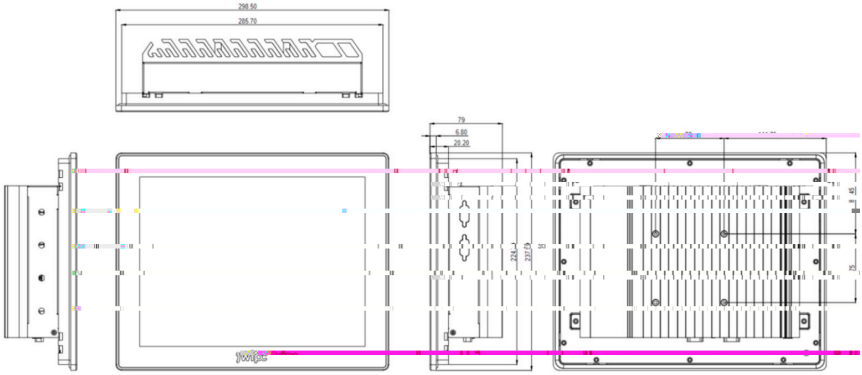


1.4.3 IVS-121

-
- W x H x D 298.5 x 237.5 x 71mm
- W x H x D $286.5^{+1.5}_{-0}$ x $225.5^{+1.5}_{-0}$ mm

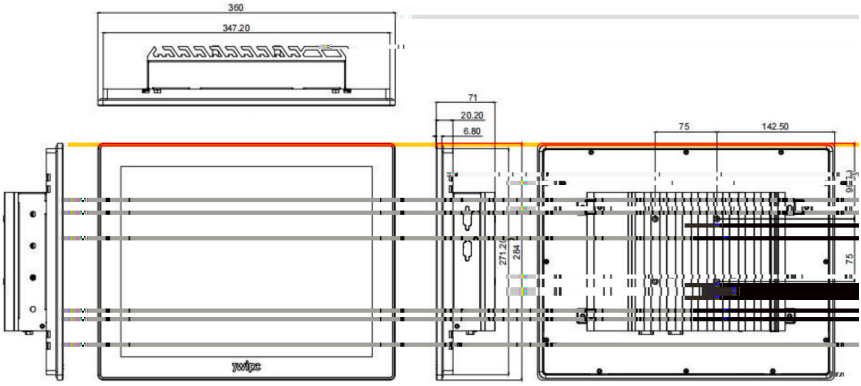


-
- W x H x D 298.5 x 237.5 x 79mm
- W x H x D $286.5^{+1.5}_{-0}$ x $225.5^{+1.5}_{-0}$ mm

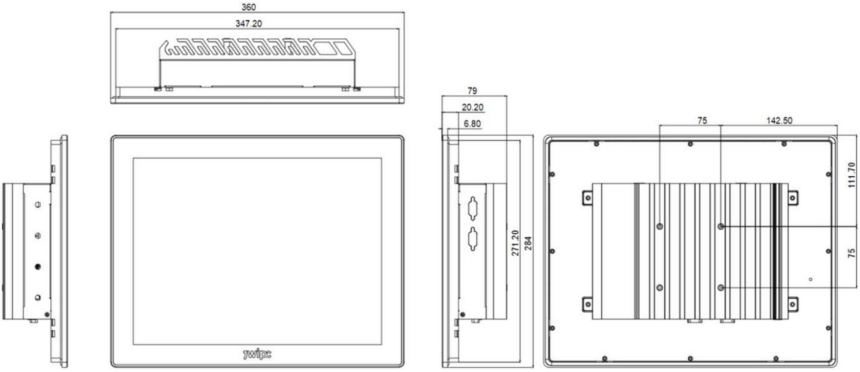


1.4.4 IVS-150

-
- W x H x D 360 x 284 x 71mm
- W x H x D 348 +1.5 -0 x 272 +1.5 -0 mm

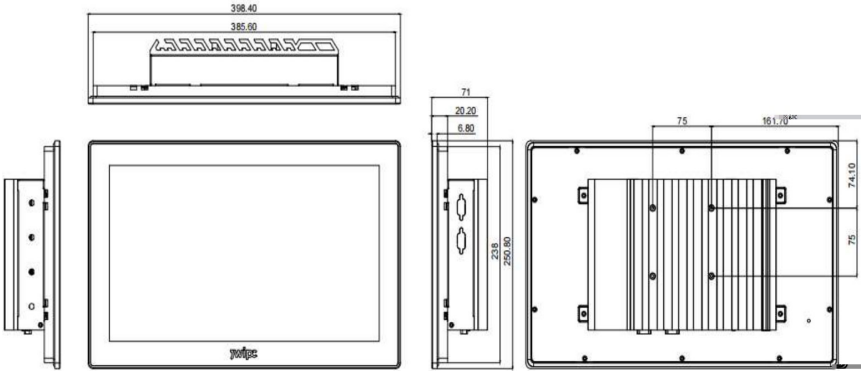


-
- W x H x D 360 x 284 x 79mm
- W x H x D 348 +1.5 -0 x 272 +1.5 -0 mm

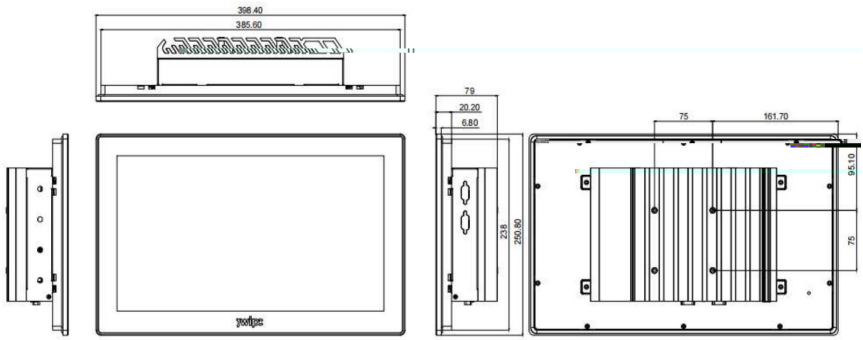


1.4.5 IVS-156

-
- W x H x D 398.4 x 250.8 x 71mm
- W x H x D 386 +1.5 -0 x 238.5 +1.5 -0 mm

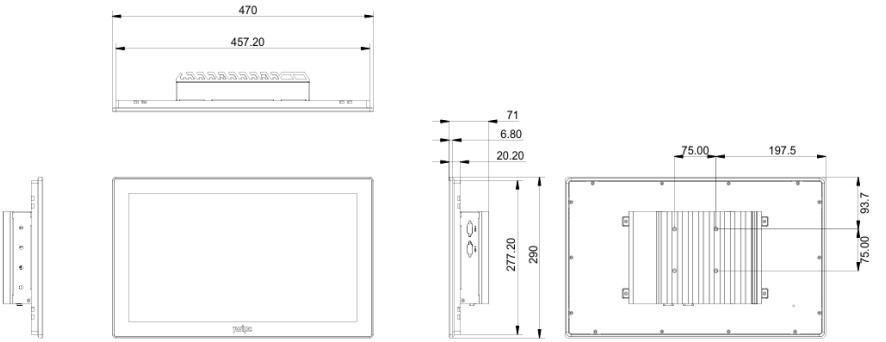


-
- W x H x D 398.4 x 250.8 x 79mm
- W x H x D 386 +1.5 -0 x 238.5 +1.5 -0 mm

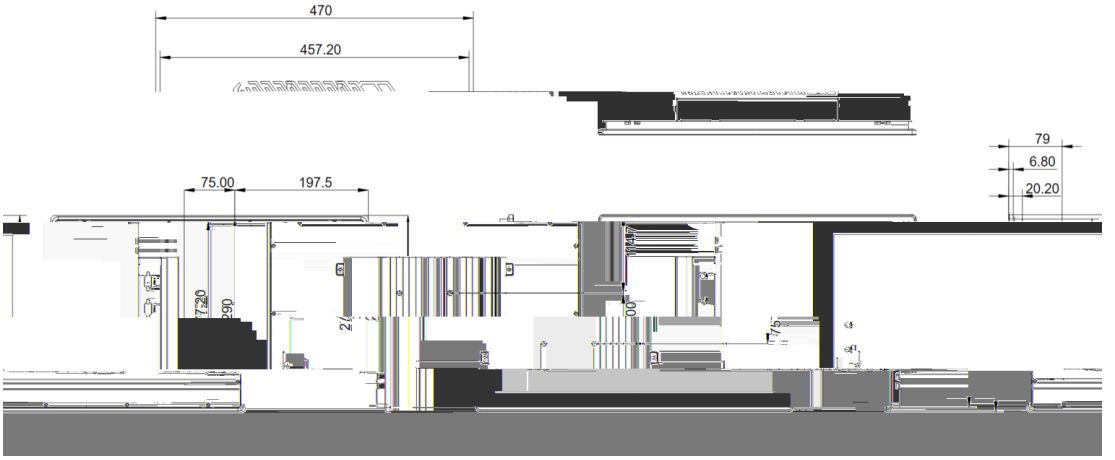


1.4.7 IVS-185

-
- W x H x D 470 x 290 x 71mm
- W x H x D $458^{+1.5}_{-0}$ x $278^{+1.5}_{-0}$ mm

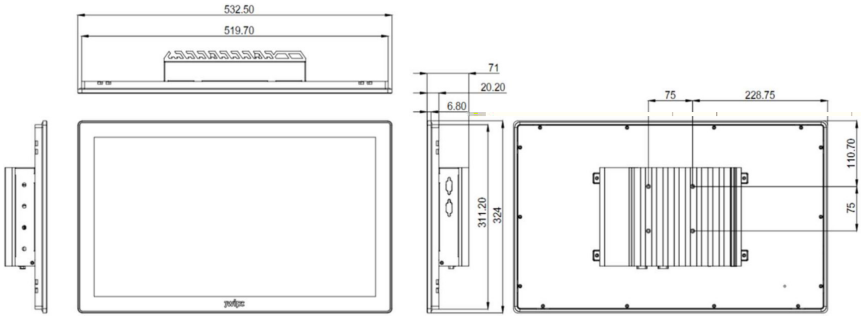


-
- W x H x D 470 x 290 x 79mm
- W x H x D $458^{+1.5}_{-0}$ x $278^{+1.5}_{-0}$ mm

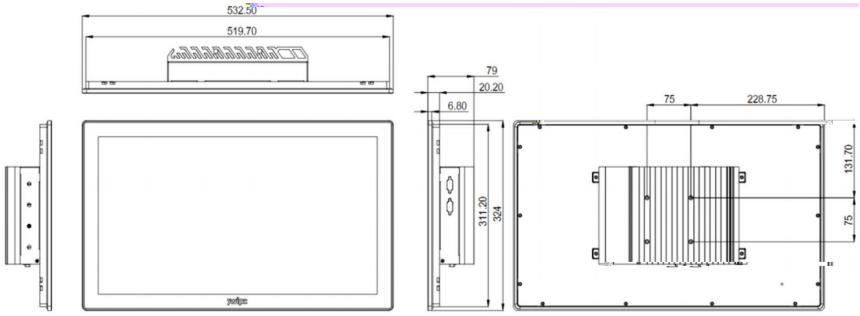


1.4.8 IVS-215

-
- W x H x D 532.5 x 324 x 71mm
- W x H x D 520.5 +1.5 -0 x 312 +1.5 -0 mm



-
- W x H x D 532.5 x 324 x 79mm
- W x H x D 520.5 +1.5 -0 x 312 +1.5 -0 mm



2

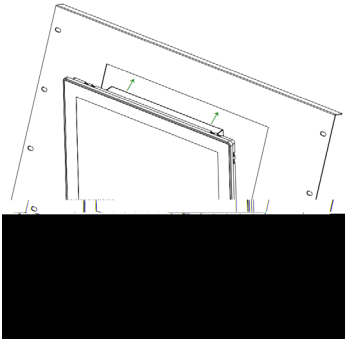
2.1

□ 19″ ■ ■
■ ■ VESA □
□

2.2

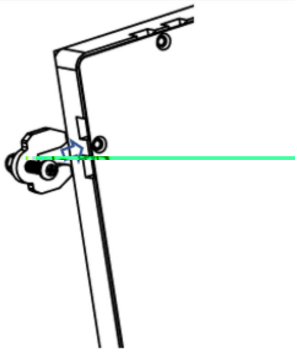
2.2.1

1



2

5 kgf-cm 0.5 Nm



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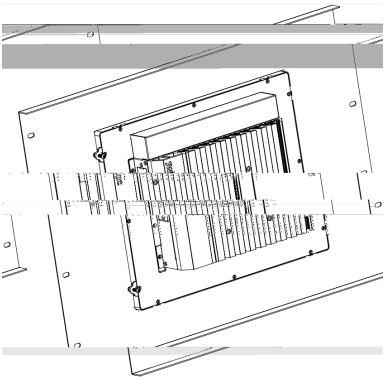
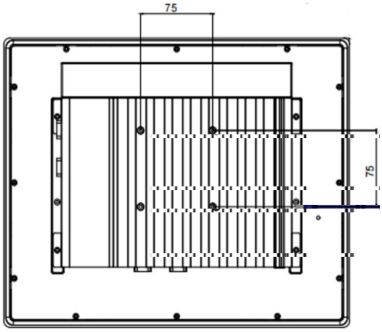


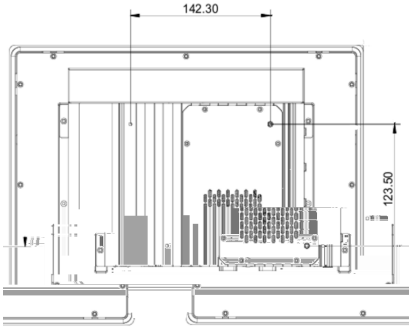
IVS-101/104/121/150/156 4PCS
IVS-170/185/215 8PCS

2.2.2 VESA

1 IVS VESA 75mm x 75mm



2 IVS 142.3mm x 123.5mm



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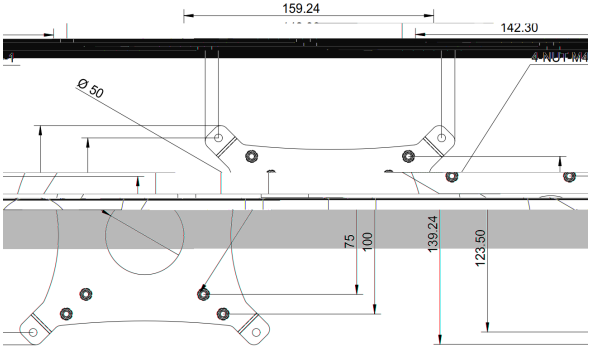
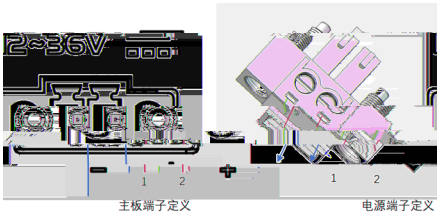


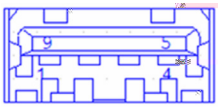
3

3.1



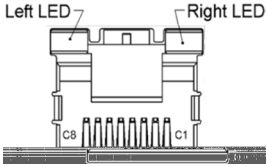
1	-
2	+

3.2 USB



1	USB VBUS	6	SSRX+
2	USB_P-	7	GND_DRAIN
3	USB_P+	8	SSTX-
4	GND	9	SSTX+
5	SSRX-		

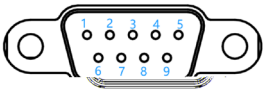
3.3



1	MDI0+	5	MDI2+
2	MDI0-	6	MDI2-
3	MDI1+	7	MDI3+
4	MDI1-	8	MDI3-

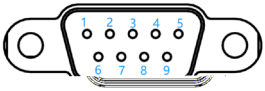
Left LED			Right LED
10 Link	100 Link	1000 Link	Active
Of	Green	Orange	Green

3.4 RS232/485/422 COM1 COM2



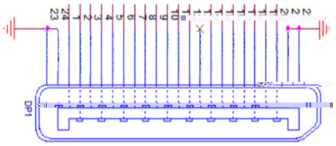
Pin	RS232	RS422	RS485
1	DCD	TX-	Data-
2	RX	TX+	Data
3	TX	RX+	/
4	DTR	RX-	/
5	GND	GND	GND
6	DSR	/	/
7	RTS	/	/
8	CTS	/	/
9	RI	/	/

3.5 RS232 COM3 COM4



Pin	
1	/
2	RX
3	TX
4	/
5	GND
6	/
7	/
8	/
9	/

3.6 DP

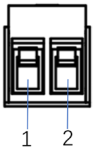


1	DP_TX 0(p)	11	GND
2	GND	12	DP_TX 3(n)
3	DP_TX 0(n)	13	AUX_EN
4	DP_TX 1(p)	14	DP_confg
5	GND	15	AUX_CH(p)
6	DP_TX 1(n)	16	GND
7	DP_TX 2(p)	17	AUX_CH(n)
8	GND	18	Hot Plug
9	DP_TX 2(n)	19	GND
10	DP_TX 3(p)	20	DP_PWR

3.7 HDMI

1	HDMIC TX2 DP	11	GND
2	GND	12	HDMIC CLK DN
3	HDMIC TX2 DN	13	NC
4	HDMIC TX1 DP	14	NC
5	GND	15	HDMIC SCL
6	HDMIC TX1 DN	16	HDMIC SCA
7	HDMIC TXO DP	17	GND
8	GND	18	DAC_5V
9	HDMIC TXO DN	19	DPC_HPD_CN_C
10	HDMIC CLK DP	/	/

3.8



1	GND
2	POWER BUTTON

产品中有害物质的名称及含量