

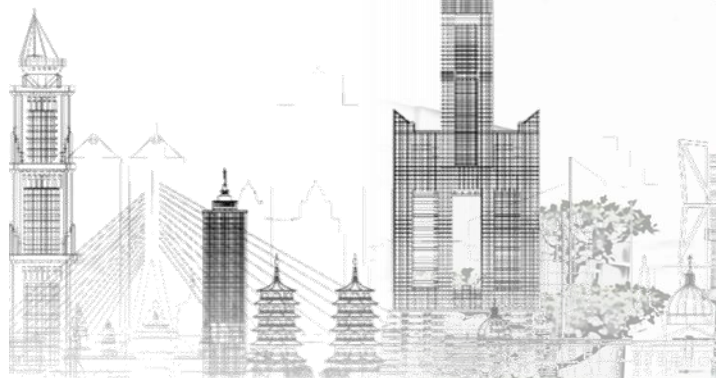


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Mitsubishi Replacement Solution

Bob Hu

2021.06.10



Product Summary

Product							
Size	Res.	P/N	Status	Kick Off	CAS	Sample	MP
8.4"	1024 x 768	ET084030LDVA	Developing	2020/09/25	2021/03/08	(2021/Q3)	(2021/Q3)
10.4"	800 x 600	ET104031DV6	Developing	2021/05/13	2021/05/28	(2021/Q3)	(2021/Q4)
10.4"	1024 x 768	ET104030DVA	Developing	2021/02/24	2021/03/31	(2021/Q3)	(2021/Q3)
12.1"	1024 x 768	ET121030DVA	MP	2020/09/15	2020/09/16	2020/12	2021/03
12.1"	1024 x 768	ETML121030DWA	MP	2020/10/13	2020/10/14	2021/01	2021/03
12.1"	1024 x 768	ETML121030LDWA	Planning	(2021/Q3)	(2021/Q3)	(2021/Q4)	(2021/Q4)

- ◆ The LCM design with mounting screws/holes/lugs is similar to the Mitsubishi module.
- ◆ Interface pin assignment is similar to that of the Mitsubishi module.
- ◆ If you have inquiries for other size, we can share NRE to develop .

8.4" XGA 1024 x 768

Comparison list

Item	Mitsubishi AA084XE11	Mitsubishi AA084XB11	Mitsubishi AA084XE01	Mitsubishi AA084XD01	EDT Solution ET084030LDVA
Resolution	1024 x 768	1024 x 768	1024 x 768	1024 x 768	1024 x 768
LCM Size	199.5 x 149 x 9.7	199.5 x 149 x 11.5	199.5 x 149 x 9.7	199.5 x 149 x 9.7	199.5 x 149 x 9.7
Active Area	170.496 x 127.872	170.496 x 127.872	170.496 x 127.872	170.496 x 127.872	170.8032 x 128.1024
LCD Type	TN, 6 o'clock	TN, 6 o'clock	TN, 6 o'clock	IPS	IPS
View Angle(typ) (0x+/0x-/0y+/0y-)	80/80/80/60	80/80/80/60	80/80/80/60	85/85/85/85	80/80/80/80
Contrast Ratio (typ)	600:1	600:1	600:1	1000:1	1000:1
Response Time (typ)	16ms	16ms	16ms	24ms	30ms
Luminance (nits)	1000(typ)	1000(typ)	500(typ)	700(typ)	900(min)/1000(typ)
Life Time (hrs)	80K(min)/100K(typ)	80K(min)/100K(typ)	80K(min)/100K(typ)	80K(min)/100K(typ)	80K(min)/100K(typ)
Power Consumption(W)	6.73	7.25	5.45	6.05	7.08
Interface	LVDS	LVDS	LVDS	LVDS(6 bit/8 bit)	LVDS 6/8 bit (VESA)
Operation Temperature	-30~80 °C	-30~80 °C	-30~80 °C	-30~80 °C	-30~80 °C
Storage Temperature	-30~80 °C	-30~80 °C	-30~80 °C	-30~80 °C	-30~80 °C
LCD Connector	20186-020E-11F(IPEX) or FI-SEB20P-HFE(JAE)	20186-020E-11F(IPEX) or FI-SEB20P-HFE(JAE)	20186-020E-11F(IPEX) or FI-SEB20P-HFE(JAE)	20186-020E-11F(IPEX) or FI-SEB20P-HFE(JAE)	20186-020E-11F(IPEX) or FI-SEB20P-HFE(JAE)
LED Driver	Without	Without	With	With	With
Replace Mitsubishi Model					AA084XD01



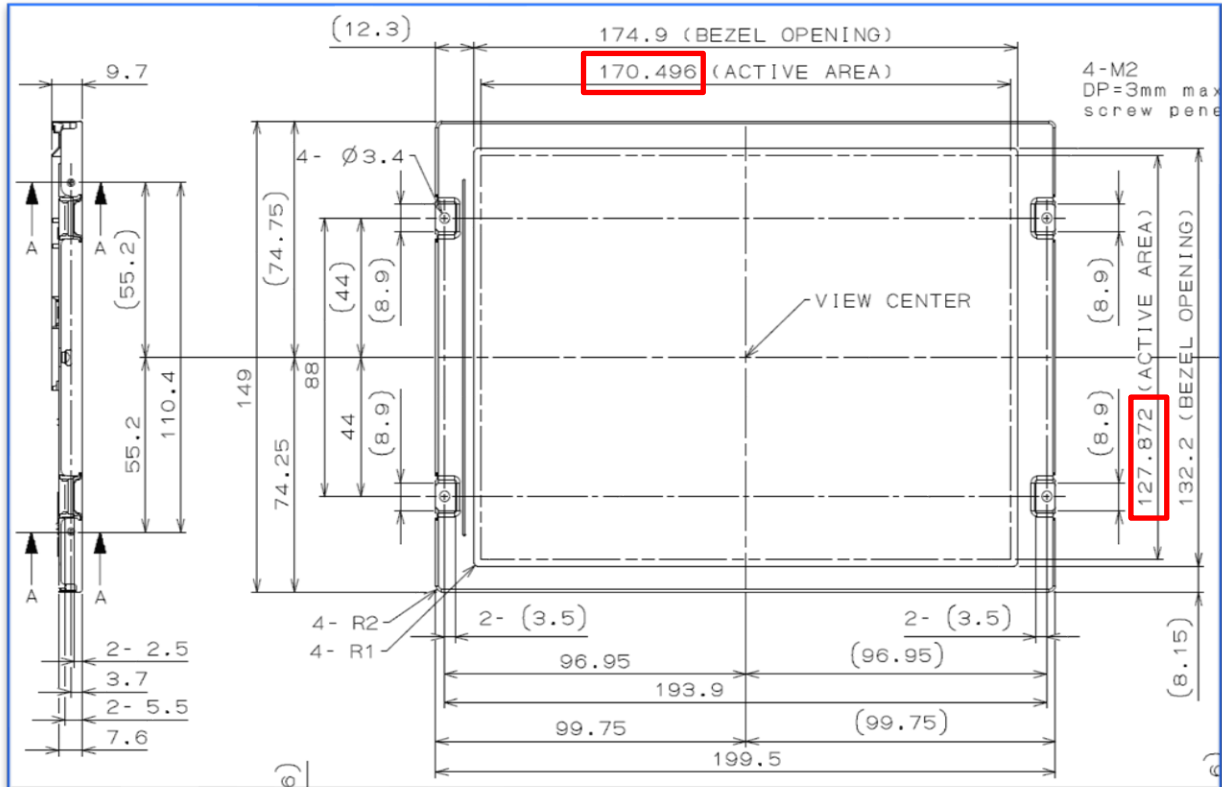
AA084XD01



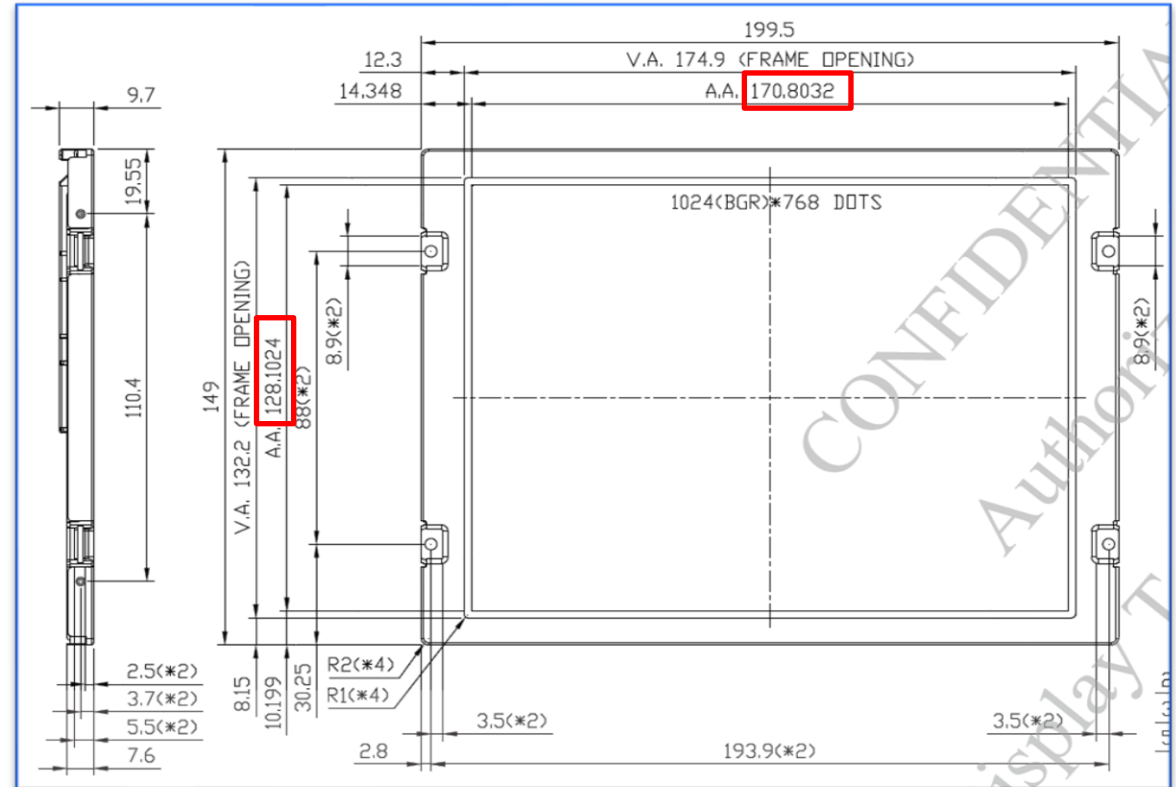
ET084030LDVA

Drawing(Front side)

Mitsubishi
AA084XD01

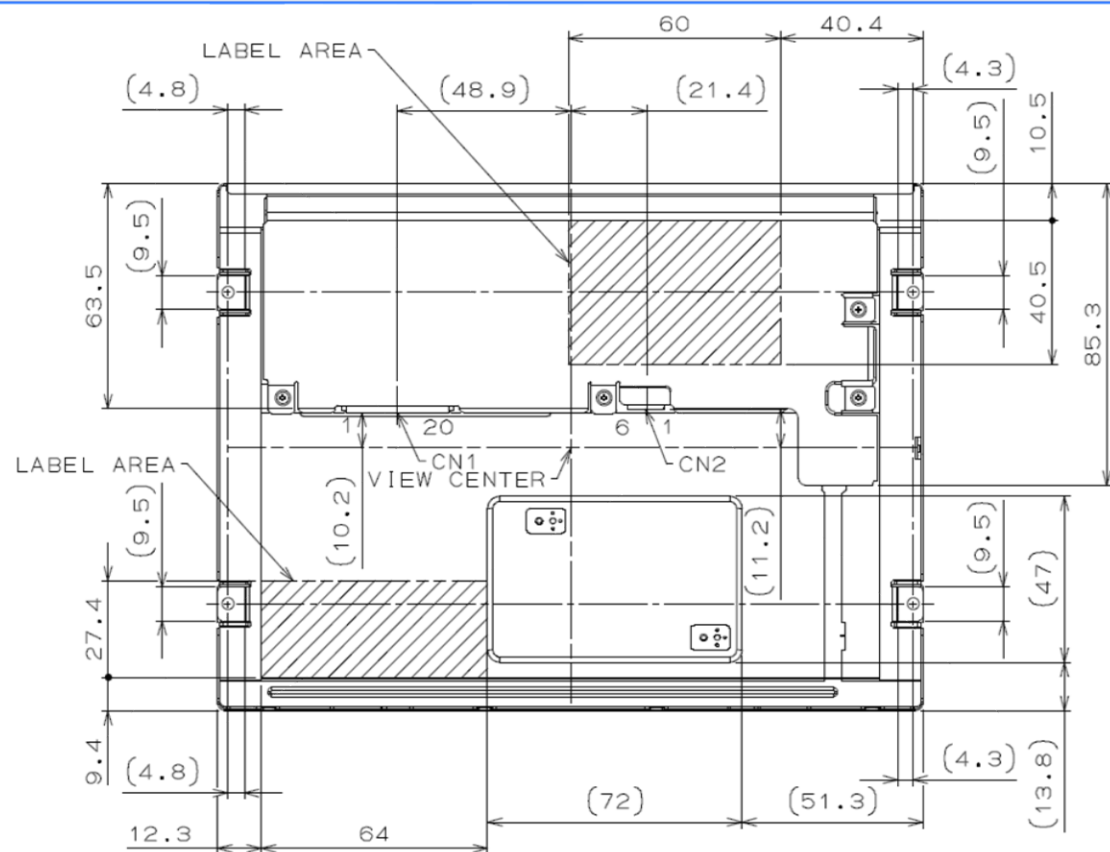


EDT Solution
ET084030LDVA

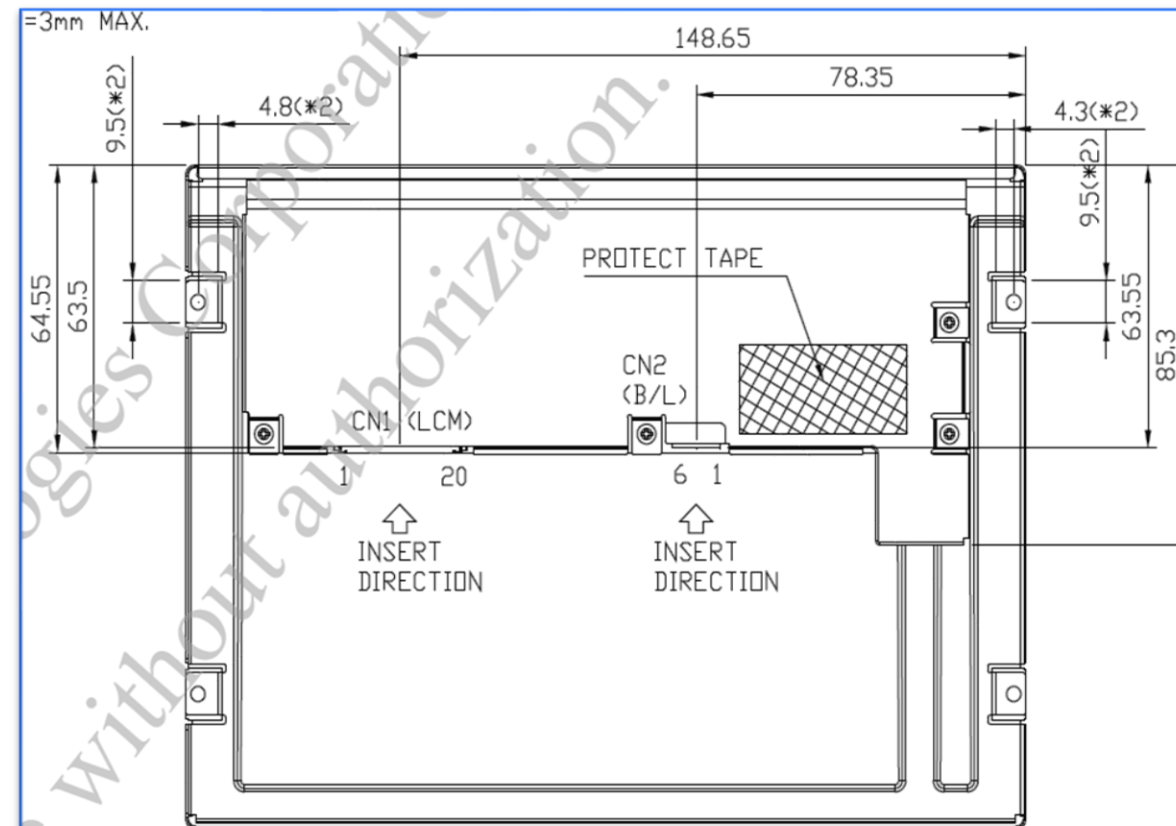


- ◆ The LCM design with mounting screws/holes/lugs is same as the Mitsubishi module
- ◆ LCM display active area is different from Mitsubishi module

Mitsubishi
AA084XD01



EDT Solution ET084030LDVA



LVDS Interface

Mitsubishi AA084XD01

Pin No.	Symbol	Function(ISP 6 bit compatibility mode)		Function(ISP 8 bit compatibility mode)
		6 bit input	8 bit input	
1	VCC	+3.3 V Power supply		←
2	VCC	+3.3 V Power supply		←
3	GND	GND		←
4	GND	GND		←
5	Link 0-	R0, R1, R2, R3, R4, R5, G0	R2, R3, R4, R5, R6, R7, G2	R0, R1, R2, R3, R4, R5, G0
6	Link 0+	R0, R1, R2, R3, R4, R5, G0	R2, R3, R4, R5, R6, R7, G2	R0, R1, R2, R3, R4, R5, G0
7	GND	GND		←
8	Link 1-	G1, G2, G3, G4, G5, B0, B1	G3, G4, G5, G6, G7, B2, B3	G1, G2, G3, G4, G5, B0, B1
9	Link 1+	G1, G2, G3, G4, G5, B0, B1	G3, G4, G5, G6, G7, B2, B3	G1, G2, G3, G4, G5, B0, B1
10	GND	GND		←
11	Link 2-	B2, B3, B4, B5, DENA	B4, B5, B6, B7, DENA	B2, B3, B4, B5, DENA
12	Link 2+	B2, B3, B4, B5, DENA	B4, B5, B6, B7, DENA	B2, B3, B4, B5, DENA
13	GND	GND		←
14	CLKIN-	Clock -		←
15	CLKIN+	Clock +		←
16	GND	GND		←
17	Link3-	See: *2)	R0, R1, G0, G1, B0, B1	R6, R7, G6, G7, B6, B7
18	Link3+	See: *2)	R0, R1, G0, G1, B0, B1	R6, R7, G6, G7, B6, B7
19	MODE	Low=ISP 6 bit compatibility mode		High=ISP 8 bit compatibility mode
20	SC	Reverse scan control (Low : Normal , High : Reverse)		←

*1) Metal frame is connected to signal GND.

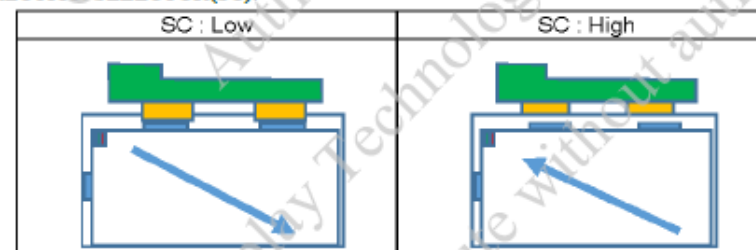
*2) Recommended wiring of Pin 17,18 (6 bit input)

- ◆ Interface pin assignment is similar to that of the Mitsubishi module.

EDT Solution ET084030LDVA

PIN NO.	SYMBOL	FUNCTION
1	VDD	POWER SUPPLY(+3.3V)
2	VDD	POWER SUPPLY(+3.3V)
3	VSS	GROUND
4	VSS	GROUND
5	LINK0-	0-LVDS DIFFERENTIAL DATA INPUT
6	LINK0+	0+LVDS DIFFERENTIAL DATA INPUT
7	VSS	GROUND
8	LINK1-	1-LVDS DIFFERENTIAL DATA INPUT
9	LINK1+	1+LVDS DIFFERENTIAL DATA INPUT
10	VSS	GROUND
11	LINK2-	2-LVDS DIFFERENTIAL DATA INPUT
12	LINK2+	2+LVDS DIFFERENTIAL DATA INPUT
13	VSS	GROUND
14	CLINK-	-LVDS DIFFERENTIAL CLOCK INPUT
15	CLINK+	+LVDS DIFFERENTIAL CLOCK INPUT
16	VSS	GROUND
17	LINK3-	3-LVDS DIFFERENTIAL DATA INPUT
18	LINK3+	3+LVDS DIFFERENTIAL DATA INPUT
19	MODE	HIGH (8 BIT) ; LOW (6 BIT)
20	SC	SCAN DIRECTION SELECTOR (LOW: NORMAL; HIGH: REVERSE)

*SCAN DIRECTION SELECTOR(SC):



10.4" SVGA 800 x 600

Comparison list

Item	Mitsubishi AA104SL02	Mitsubishi AA104SL12	Mitsubishi AA104SH12	Mitsubishi AT104SN01	Mitsubishi AA104SH02	EDT Solution ET104031DV6
Resolution	800 x 600	800 x 600	800 x 600	800 x 600	800 x 600	800 x 600
LCM Size	230 x 180.2 x 9.5	230 x 180.2 x 10.5	230 x 180.2 x 10.5	230 x 180.2 x 11	230 x 180.2 x 10.5	230 x 180.2 x 9.5
Active Area	211.2 x 158.4	211.2 x 158.4	211.2 x 158.4	211.2 x 158.4	211.2 x 158.4	211.2 x 158.4
LCD Type	TN, 6 o'clock	TN, 6 o'clock	TN, 6 o'clock	TN, 6 o'clock	TN, 6 o'clock	TN, 6 o'clock
View Angle(typ) (0x+/0x-/0y+/0y-)	80/80/80/60	80/80/80/60	80/80/80/60	80/80/80/80	80/80/80/60	80/80/70/70
Contrast Ratio (typ)	700:1	700:1	700:1	700:1	700:1	700:1
Response Time (typ)	16ms	16ms	16ms	16ms	16ms	16ms
Luminance (nits)	700(typ)	1200(typ)	1200(typ)	700(typ)	700(typ)	1200(typ)
Life Time (hrs)	80K(min)	80K(min)	60K(min)	80K(min)	80K(min)	80K(min)
Power Consumption(W)	5.19(typ)	7.23(typ)	8.6(typ)	8.98(typ)	4.82(typ)	6.5(typ)
Interface	LVDS	LVDS	LVDS	LVDS	LVDS	LVDS 6/8 bit
Operation Temperature	-30~80 °C	-30~80 °C	-30~80 °C	-40~85 °C	-30~80 °C	-30~80 °C
Storage Temperature	-30~80 °C	-30~80 °C	-30~80 °C	-40~85 °C	-30~80 °C	-30~80 °C
LCD Connector	20186-020E-11F(IPEX) or FI-SEB20P-HFE(JAE)	20186-020E-11F(IPEX) or FI-SEB20P-HFE(JAE)	FI-SE20P-HFE(JAE)	20186-020E-11F(IPEX) or FI-SEB20P-HFE(JAE)	FI-SEB20P-HFE(JAE)	20186-020E-11F(IPEX) or FI-SEB20P-HFE(JAE)
LED Driver	With	Without	Without	With	Without	Option
Replace Mitsubishi Model						AA104SL12

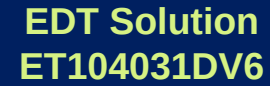


AA104SL12



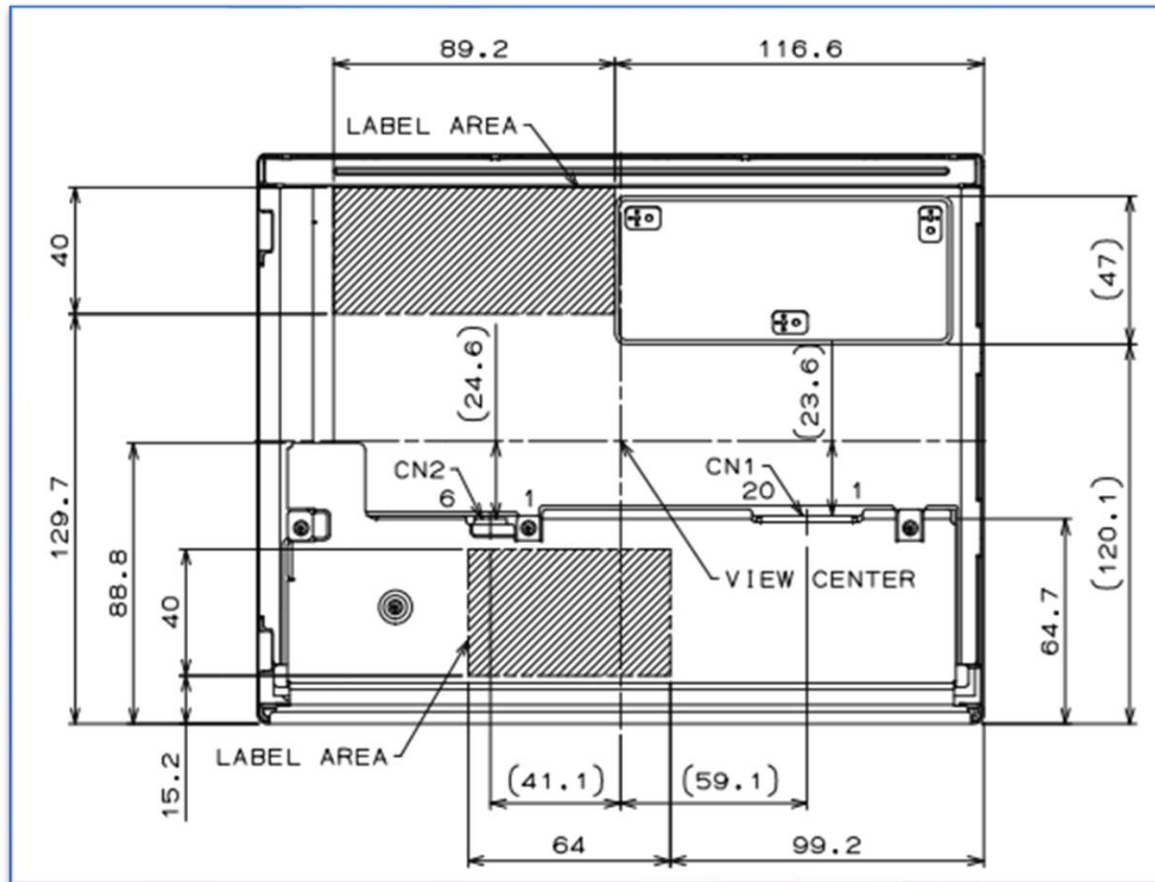
ET104031DV6
Ver.2

Mitsubishi AA104SL12

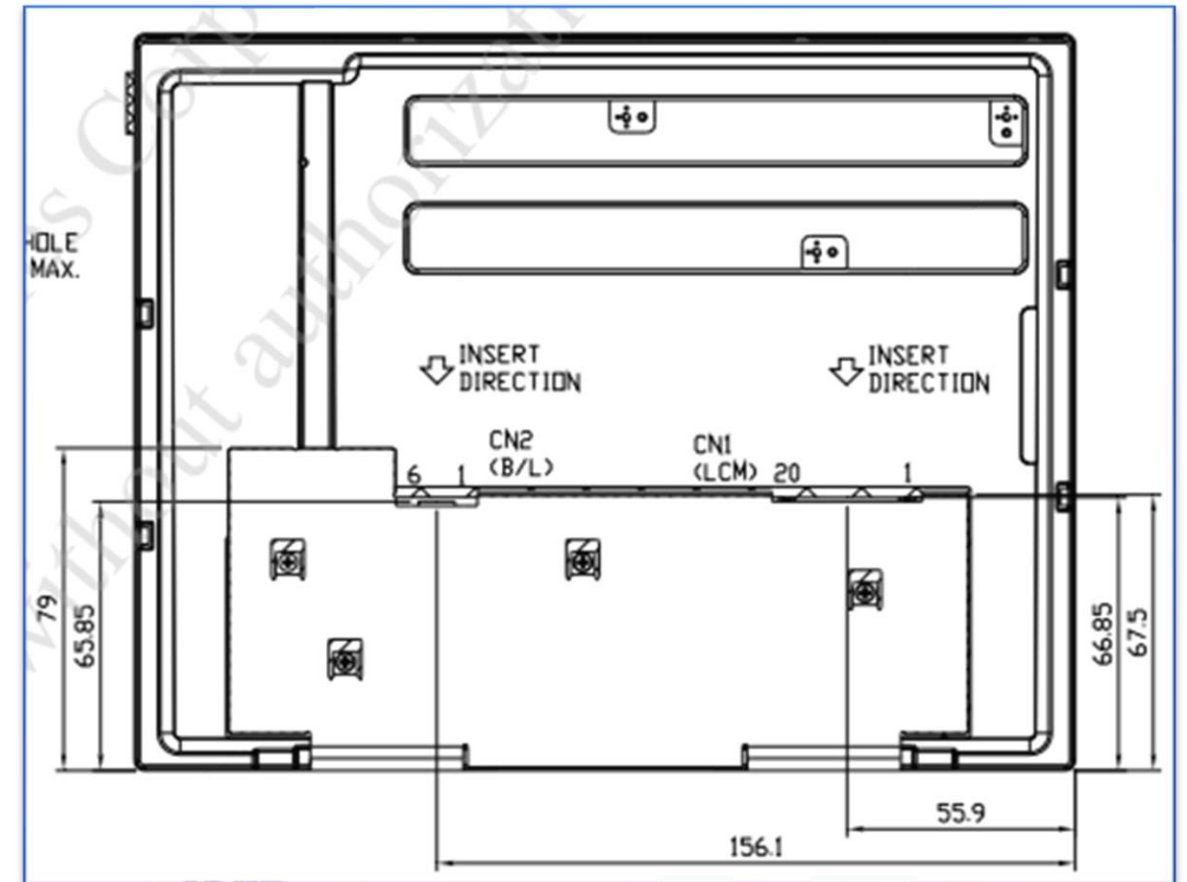


Drawing(Back side)

Mitsubishi
AA104SL12



EDT Solution
ET104031DV6



- ◆ Interface pin location is different from the Mitsubishi module

LVDS Interface

Mitsubishi AA104SL12

Pin No.	Symbol	Function (ISP 6 bit compatibility mode)		Function (ISP 8 bit compatibility mode)
		6 bit input	8 bit input	
1	VCC	+3.3 V Power supply		←
2	VCC	+3.3 V Power supply		←
3	GND	GND		←
4	GND	GND		←
5	Link 0-	R0, R1, R2, R3, R4, R5, G0	R2, R3, R4, R5, R6, R7, G2	R0, R1, R2, R3, R4, R5, G0
6	Link 0+	R0, R1, R2, R3, R4, R5, G0	R2, R3, R4, R5, R6, R7, G2	R0, R1, R2, R3, R4, R5, G0
7	GND	GND		←
8	Link 1-	G1, G2, G3, G4, G5, B0, B1	G3, G4, G5, G6, G7, B2, B3	G1, G2, G3, G4, G5, B0, B1
9	Link 1+	G1, G2, G3, G4, G5, B0, B1	G3, G4, G5, G6, G7, B2, B3	G1, G2, G3, G4, G5, B0, B1
10	GND	GND		←
11	Link 2-	B2, B3, B4, B5, DENA	B4, B5, B6, B7, DENA	B2, B3, B4, B5, DENA
12	Link 2+	B2, B3, B4, B5, DENA	B4, B5, B6, B7, DENA	B2, B3, B4, B5, DENA
13	GND	GND		←
14	CLKIN-	Clock -		←
15	CLKIN+	Clock +		←
16	GND	GND		←
17	Link3-	See: *2)	R0, R1, G0, G1, B0, B1	R6, R7, G6, G7, B6, B7
18	Link3+	See: *2)	R0, R1, G0, G1, B0, B1	R6, R7, G6, G7, B6, B7
19	MODE	Low=ISP 6 bit compatibility mode		High=ISP 8 bit compatibility mode
20	SC	Scan direction control (Low=Normal, High=Reverse)		←

*1) Metal frame is connected to signal GND.

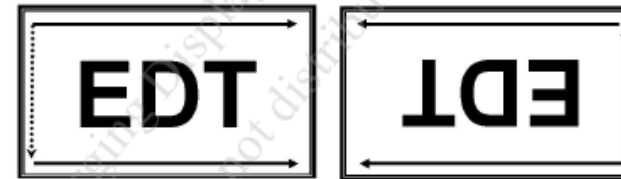
*2) Recommended wiring of Pin 17,18 (6 bit input)

◆ Interface pin assignment is similar to the Mitsubishi module

EDT Solution ET104031DV6

PIN NO.	SYMBOL	6BIT INPUT (VESA)	8BIT INPUT (VESA)
1	VDD	POWER SUPPLY(+3.3V)	
2	VDD	POWER SUPPLY(+3.3V)	
3	VSS	GROUND	
4	VSS	GROUND	
5	LINK0-	-LVDS DIFFERENTIAL DATA INPUT, R0-R5, G0	-LVDS DIFFERENTIAL DATA INPUT, R0-R5, G0
6	LINK0+	+LVDS DIFFERENTIAL DATA INPUT, R0-R5, G0	+LVDS DIFFERENTIAL DATA INPUT, R0-R5, G0
7	VSS	GROUND	
8	LINK1-	-LVDS DIFFERENTIAL DATA INPUT, G1-G5, B0-B1	-LVDS DIFFERENTIAL DATA INPUT, G1-G5, B0-B1
9	LINK1+	+LVDS DIFFERENTIAL DATA INPUT, G1-G5, B0-B1	+LVDS DIFFERENTIAL DATA INPUT, G1-G5, B0-B1
10	VSS	GROUND	
11	LINK2-	-LVDS DIFFERENTIAL DATA INPUT, B2-B5, DE	-LVDS DIFFERENTIAL DATA INPUT, B2-B5, DE
12	LINK2+	+LVDS DIFFERENTIAL DATA INPUT, B2-B5, DE	+LVDS DIFFERENTIAL DATA INPUT, B2-B5, DE
13	VSS	GROUND	
14	CLINK-	-LVDS DIFFERENTIAL CLOCK INPUT	
15	CLINK+	+LVDS DIFFERENTIAL CLOCK INPUT	
16	VSS	GROUND	
17	LINK3-	LVDS DATA HIGH***	-LVDS DIFFERENTIAL DATA INPUT, R6, R7, G6, G7, B6, B7
18	LINK3+	LVDS DATA LOW***	+LVDS DIFFERENTIAL DATA INPUT, R6, R7, G6, G7, B6, B7
19	NC	NON CONNECTION	
20	SC	SCAN DIRECTION SELECTOR (LOW: NORMAL; HIGH: REVERSE)	

*SCAN DIRECTION SELECTOR(SC):



THE PIN19 (MODE) AND PIN 20 (SC) ARE SET HIGH BY THE INTERNAL RESISTOR OF THE DRIVER IC. SUGGEST TO SET HIGH OR PULL VSS INSTEAD OF FLOATING.

NOTE : RECOMMENDED WIRING OF PIN 17,18 (6 BIT INPUT)

10.4" XGA 1024 x 768

Comparison list

Item	Mitsubishi AA104XD02	Mitsubishi AA104XF02	Mitsubishi AA104XF12-DE2	Mitsubishi AA104XF12	Mitsubishi AT104XH11	EDT Solution ET104030DVA
Resolution	1024 x 768	1024 x 768	1024 x 768	1024 x 768	1024 x 768	1024 x 768
LCM Size	230 x 180.2 x 10.5	230 x 180.2 x 9.5	240.6 x 190.8 x 15	230 x 180.2 x 9.5	230 x 180.2 x 11	230 x 180.2 x 9.5
Active Area	210.4 x 157.8	210.4 x 157.8	210.4 x 157.8	210.4 x 157.8	210.4 x 157.8	211.2 x 158.4
LCD Type	TN, 6 o'clock	TN, 6 o'clock	TN, 6 o'clock	TN, 6 o'clock	TN, 6 o'clock	IPS
View Angle(typ) (0x+/0x-/0y+/0y-)	80/80/65/65	80/80/80/80	80/80/80/80	80/80/80/80	80/80/80/80	88/88/88/88
Contrast Ratio (typ)	600:1	700:1	700:1	700:1	700:1	1000:1
Response Time (typ)	16ms (max)	16ms (max)	16ms (max)	16ms (max)	16ms (max)	30ms
Luminance (nits)	600(typ)	600(typ)	800(typ)	1000(typ)	1200(typ)	900(min)/1000(typ)
Life Time (hrs)	60K(min)	80K(min)	80K(min)	80K(min)	80K(min)	80K(min)
Power Consumption(W)	7.93(typ)	5.29(typ)	6.85(typ)	6.85(typ)	9.96(typ)	6.47(typ)
Interface	LVDS	LVDS	LVDS	LVDS(6 bit/8 bit)	LVDS	LVDS (VESA 8 bit only)
Operation Temperature	-30~80 °C	-30~80 °C	-30~70 °C	-30~80 °C	-40~85 °C	-30~80 °C
Storage Temperature	-30~80 °C	-30~80 °C	-30~80 °C	-30~80 °C	-40~85 °C	-30~80 °C
LCD Connector	FI-SE20P-HFE(JAE)	20186-020E-11F(IPEX) or FI-SEB20P-HFE(JAE)	20186-020E-11F(IPEX) or FI-SEB20P-HFE(JAE)	20186-020E-11F(IPEX) or FI-SEB20P-HFE(JAE)	20186-020E-11F(IPEX) or FI-SEB20P-HFE(JAE)	20186-020E-11F(IPEX)
LED Driver	Without	With	Without	Without	Without	Option
Replace Mitsubishi Model						AA104XF12

※With Touch Panel



AA104XF12



ET104030DVA
V2

EDT Solution ET104030DVA

Technical drawing of the front view of a device. The drawing includes the following dimensions and features:

- Top Dimensions:**
 - 9.5 (width of top left corner)
 - 5.5 (width of top left corner)
 - 215.4 (BEZEL OPENING)
 - 210.4 (ACTIVE AREA) - highlighted with a red box
- Left Side Dimensions:**
 - 9.5 (width of left corner)
 - 54.3 (height of left section)
 - 22.4 (height of left section)
- Right Side Dimensions:**
 - 157.8 (ACTIVE AREA) - highlighted with a red box
 - 161.8 (BEZEL OPENING)
 - 8.5 (width of bottom right corner)
- Internal Dimensions and Features:**
 - 180.2 (height of main body)
 - 89.4 (height of main body)
 - 90.8 (height of main body)
 - 115 (width of main body)
 - 230 (total width)
 - VIEW CENTER (indicated by dashed lines)
 - 4 - R1 (fillet radius)
 - 4 - R2.5 (fillet radius)
- Notes:**
 - 4-M3 DP=4.5mm max. screw penetration

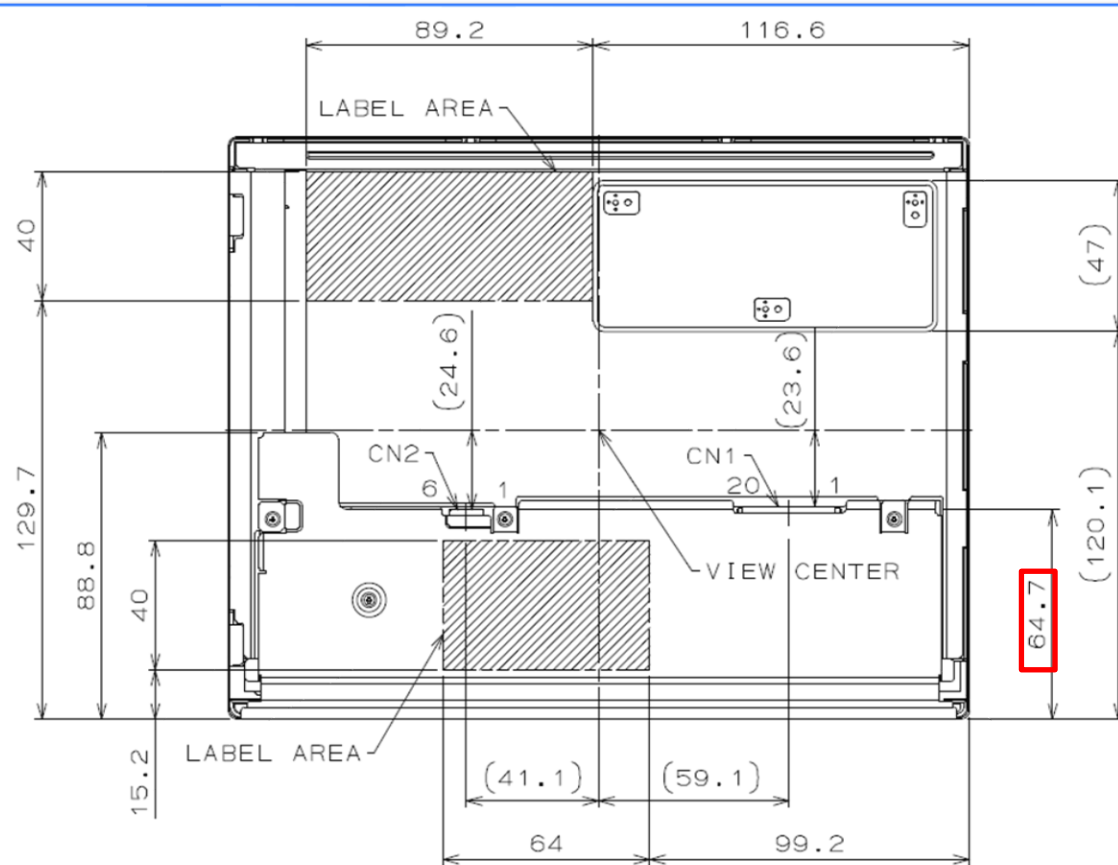
Technical drawing of the front view of the LCD module. The drawing includes the following dimensions and specifications:

- Overall width: 230
- Overall height: 180.2
- Top edge dimensions: 7.3 (left), 9.4 (left), 9.5 (right), 5.5(*2) (right)
- Top edge labels: V.A. 215.4 (FRAME OPENING), A.A. 211.2
- Left edge labels: R2.5(*4), R1(*4)
- Bottom edge dimensions: 8.5 (left), 10.2 (left), 54.3 (right), 57.5 (right), 84.65 (right), 64.8 (right)
- Bottom edge labels: V.A. 161.8 (FRAME OPENING), A.A. 158.4
- Internal dimensions: 1024(RGB)*768 DOTS
- Internal label: M3(*4) SCREW HOLE DP=4mm MAX.

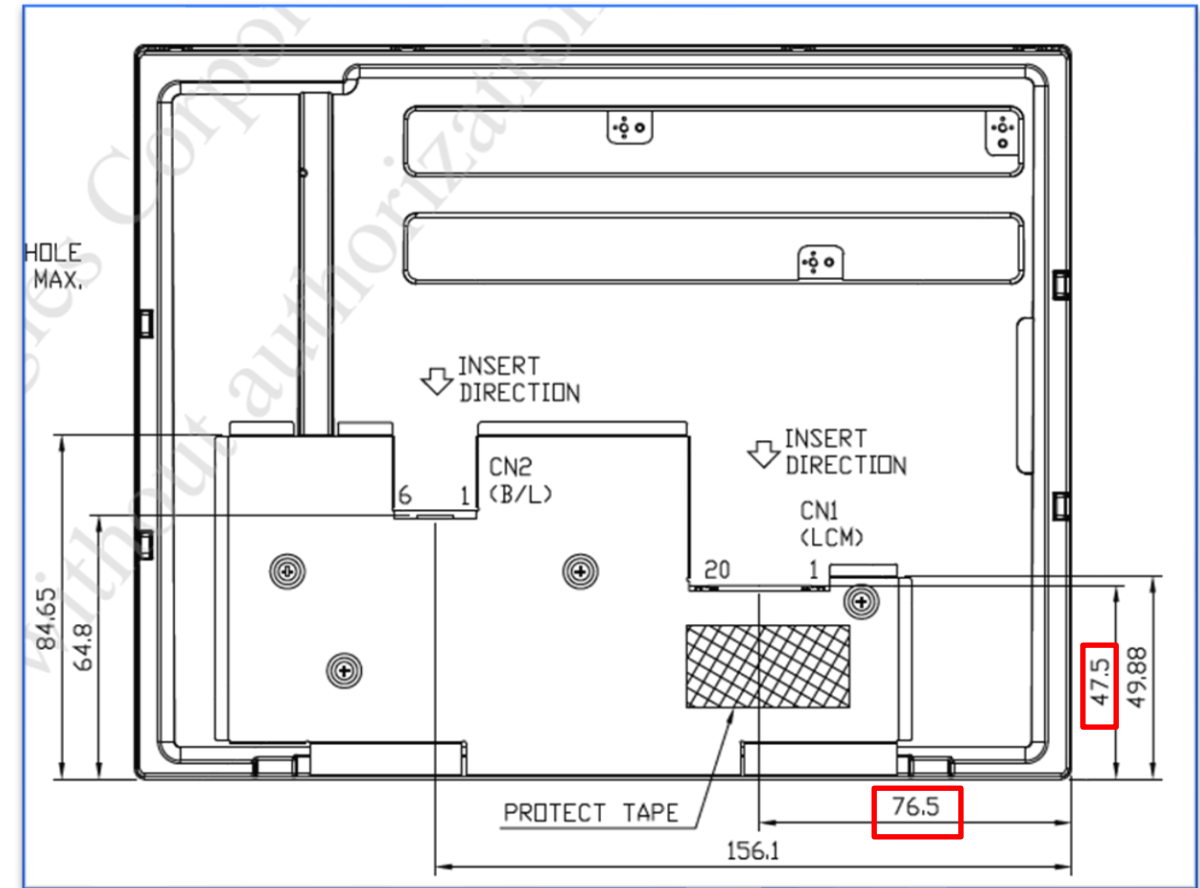
- ◆ The LCM design with mounting screws/holes/lugs is same as the Mitsubishi module
- ◆ LCM display active area is different from Mitsubishi module

Drawing(Back side)

**Mitsubishi
AA104XF12**



**EDT Solution
ET104030DVA**



- ◆ Interface pin assignment is same as the Mitsubishi module
- ◆ Interface pin location is different from the Mitsubishi module

Left 20.6 mm
Right 18.3 mm

LVDS Interface

Mitsubishi AA104XF12

Pin No.	Symbol	Function(ISP 6 bit compatibility mode)		Function(ISP 8 bit compatibility mode)
		6 bit input	8 bit input	
1	VCC	+3.3 V Power supply		←
2	VCC	+3.3 V Power supply		←
3	GND	GND		←
4	GND	GND		←
5	Link 0-	R0, R1, R2, R3, R4, R5, G0	R2, R3, R4, R5, R6, R7, G2	R0, R1, R2, R3, R4, R5, G0
6	Link 0+	R0, R1, R2, R3, R4, R5, G0	R2, R3, R4, R5, R6, R7, G2	R0, R1, R2, R3, R4, R5, G0
7	GND	GND		←
8	Link 1-	G1, G2, G3, G4, G5, B0, B1	G3, G4, G5, G6, G7, B2, B3	G1, G2, G3, G4, G5, B0, B1
9	Link 1+	G1, G2, G3, G4, G5, B0, B1	G3, G4, G5, G6, G7, B2, B3	G1, G2, G3, G4, G5, B0, B1
10	GND	GND		←
11	Link 2-	B2, B3, B4, B5, DENA	B4, B5, B6, B7, DENA	B2, B3, B4, B5, DENA
12	Link 2+	B2, B3, B4, B5, DENA	B4, B5, B6, B7, DENA	B2, B3, B4, B5, DENA
13	GND	GND		←
14	CLKIN-	Clock -		←
15	CLKIN+	Clock +		←
16	GND	GND		←
17	Link3-	See: *2)	R0, R1, G0, G1, B0, B1	R6, R7, G6, G7, B6, B7
18	Link3+	See: *2)	R0, R1, G0, G1, B0, B1	R6, R7, G6, G7, B6, B7
19	MODE	Low=ISP 6 bit compatibility mode		High=ISP 8 bit compatibility mode
20	SC	Reverse scan control (Low : Normal , High : Reverse)		←

*1) Metal frame is connected to signal GND.

*2) Recommended wiring of Pin 17,18 (6 bit input)

EDT Solution ET104030DVA

PIN NO.	SYMBOL	FUNCTION
1	VDD	POWER SUPPLY VOLTAGE (+3.3V)
2	VDD	POWER SUPPLY VOLTAGE (+3.3V)
3	VSS	GROUND
4	VSS	GROUND
5	LINK0-	-LVDS DIFFERENTIAL DATA INPUT, R0-R5, G0
6	LINK0+	+LVDS DIFFERENTIAL DATA INPUT, R0-R5, G0
7	VSS	GROUND
8	LINK1-	-LVDS DIFFERENTIAL DATA INPUT, G1-G5, B0-B1
9	LINK1+	+LVDS DIFFERENTIAL DATA INPUT, G1-G5, B0-B1
10	VSS	GROUND
11	LINK2-	-LVDS DIFFERENTIAL DATA INPUT, B2-B5, DE
12	LINK2+	+LVDS DIFFERENTIAL DATA INPUT, B2-B5, DE
13	VSS	GROUND
14	CLINK-	-LVDS DIFFERENTIAL CLOCK INPUT
15	CLINK+	+LVDS DIFFERENTIAL CLOCK INPUT
16	VSS	GROUND
17	LINK3-	-LVDS DIFFERENTIAL DATA INPUT, R6-R7, G6-G7, B6-B7
18	LINK3+	+LVDS DIFFERENTIAL DATA INPUT, R6-R7, G6-G7, B6-B7
19	MODE	NOT CONNECTION (8 BITS)
20	SC	SCAN DIRECTION CONTROL (LOW: NORMAL, HIGH: REVERSE)

*SCAN DIRECTION SELECTOR(SC):



**THE PIN19 (MODE) AND PIN 20 (SC) ARE SET HIGH BY THE INTERNAL RESISTOR OF THE DRIVER IC. SUGGEST TO SET HIGH OR PULL GND INSTEAD OF FLOATING.

◆ Interface pin assignment is same as the Mitsubishi module

12.1" XGA 1024 x 768

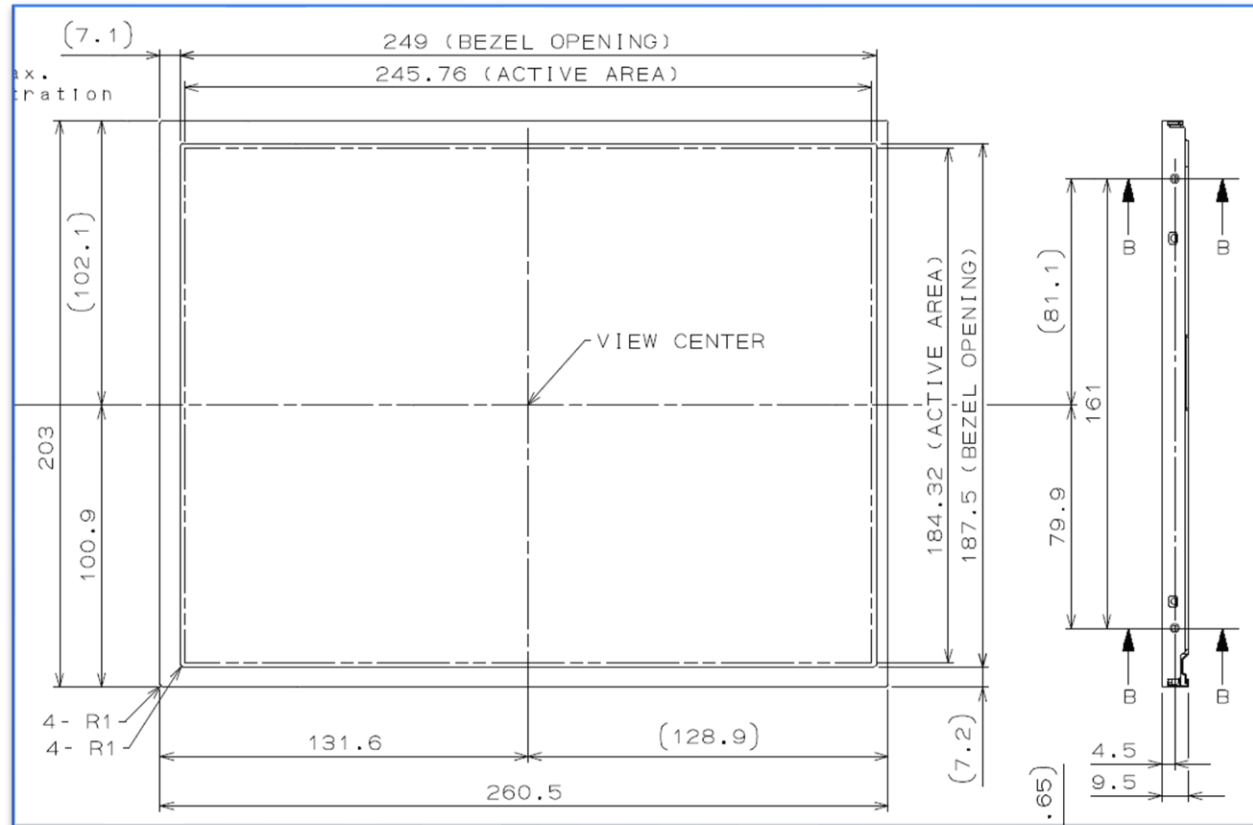
Comparison list

Item	Mitsubishi AA121XN11	Mitsubishi AA121XN11-DE4	Mitsubishi AA121XN11-DE1	EDT Solution ET121030DVA	EDT Solution ETML121030DWA	EDT Solution ETML121030LDWA
Resolution	1024 x 768	1024 x 768	1024 x 768	1024 x 768	1024 x 768	1024 x 768
LCM Size	260.5 x 203.0 x 9.5	260.5 x 203.0 x 15.3	260.5 x 203.0 x 15.1	260.5 x 203.0 x 9.5	260.5 x 203.0 x 12.55	260.5 x 203.0 x 12.55
Active Area	245.76 x 184.32	245.76 x 184.32	245.76 x 184.32	245.76 x 184.32	245.76 x 184.32	245.76 x 184.32
LCD Type	TN, 6 o'clock	TN, 6 o'clock	TN, 6 o'clock	IPS	IPS	IPS
View Angle(typ) (0x+/0x-/0y+/0y-)	80/80/80/80	80/80/80/80	80/80/80/80	88/88/88/88	88/88/88/88	88/88/88/88
Contrast Ratio (typ)	800:1	800:1	800:1	1000:1	1000:1	1000:1
Response Time (typ)	16ms	16ms	16ms	30ms	30ms	30ms
Luminance (nits)	1300(typ)	1040(typ)	1040(typ)	1300(typ)	1100(typ)	1100(typ)
Life Time (hrs)	80K(min)/100K(typ)	80K(min)/100K(typ)	80K(min)/100K(typ)	80K(min)/100K(typ)	80K(min)/100K(typ)	80K(min)/100K(typ)
Power Consumption(W)	9.96(typ)	9.96(typ)	9.96(typ)	7.63(typ)	7.63(typ)	8.9(typ)
Interface	LVDS(6 bit/8 bit)	LVDS	LVDS	LVDS(6 bit/8 bit)	LVDS(6 bit/8 bit)	LVDS(6 bit/8 bit)
Operation Temperature	-30~80 °C	-30~70 °C	-30~70 °C	-30~80 °C	-30~80 °C	-30~80 °C
Storage Temperature	-30~80 °C	-30~80 °C	-30~80 °C	-30~80 °C	-30~80 °C	-30~80 °C
LCD Connector	20186-020E-11F(IPEX) or FI-SEB20P-HFE(JAE)	20186-020E-11F(IPEX) or FI-SEB20P-HFE(JAE)	20186-020E-11F(IPEX) or FI-SEB20P-HFE(JAE)	20186-020E-11F(IPEX)	20186-020E-11F(IPEX)	20186-020E-11F(IPEX)
LED Driver	Without	Without ※With Touch Panel	Without ※With Touch Panel	Option	Option ※With Touch Panel	With ※With Touch Panel

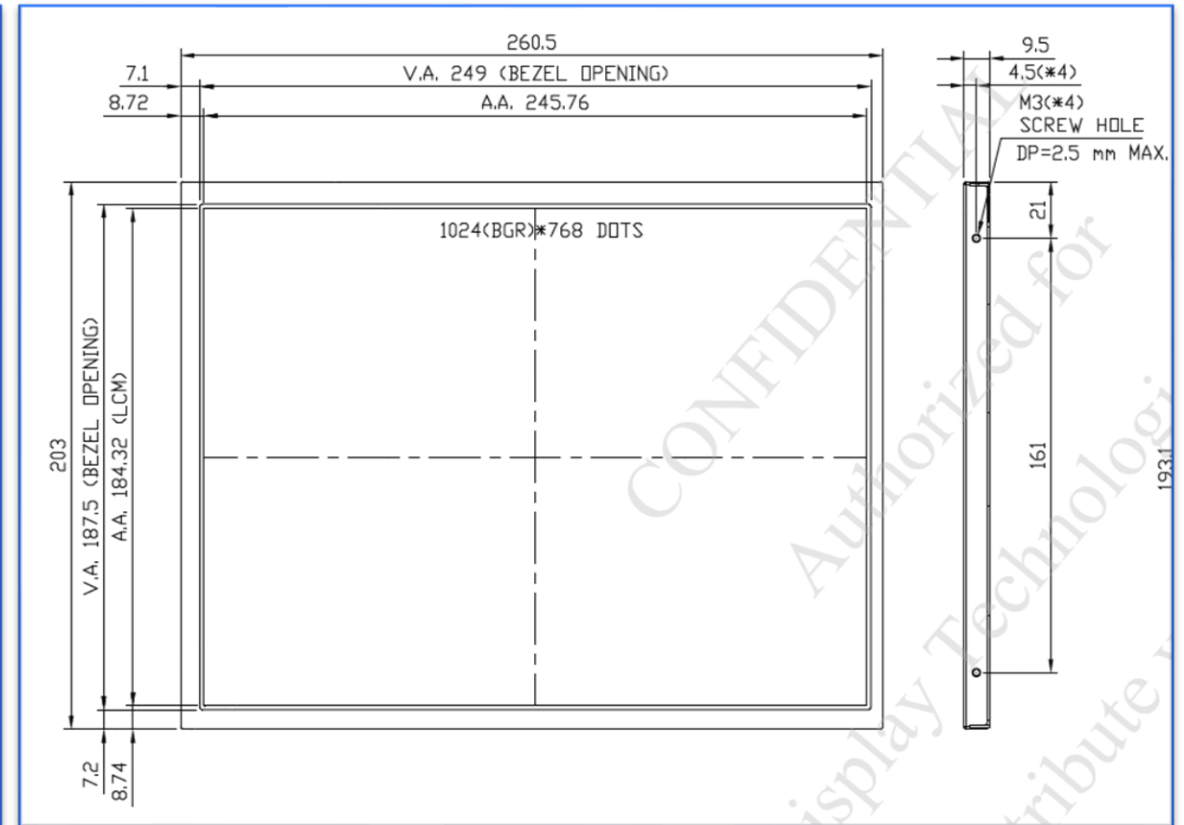


Drawing(Front side)

**Mitsubishi
AA121XN11**



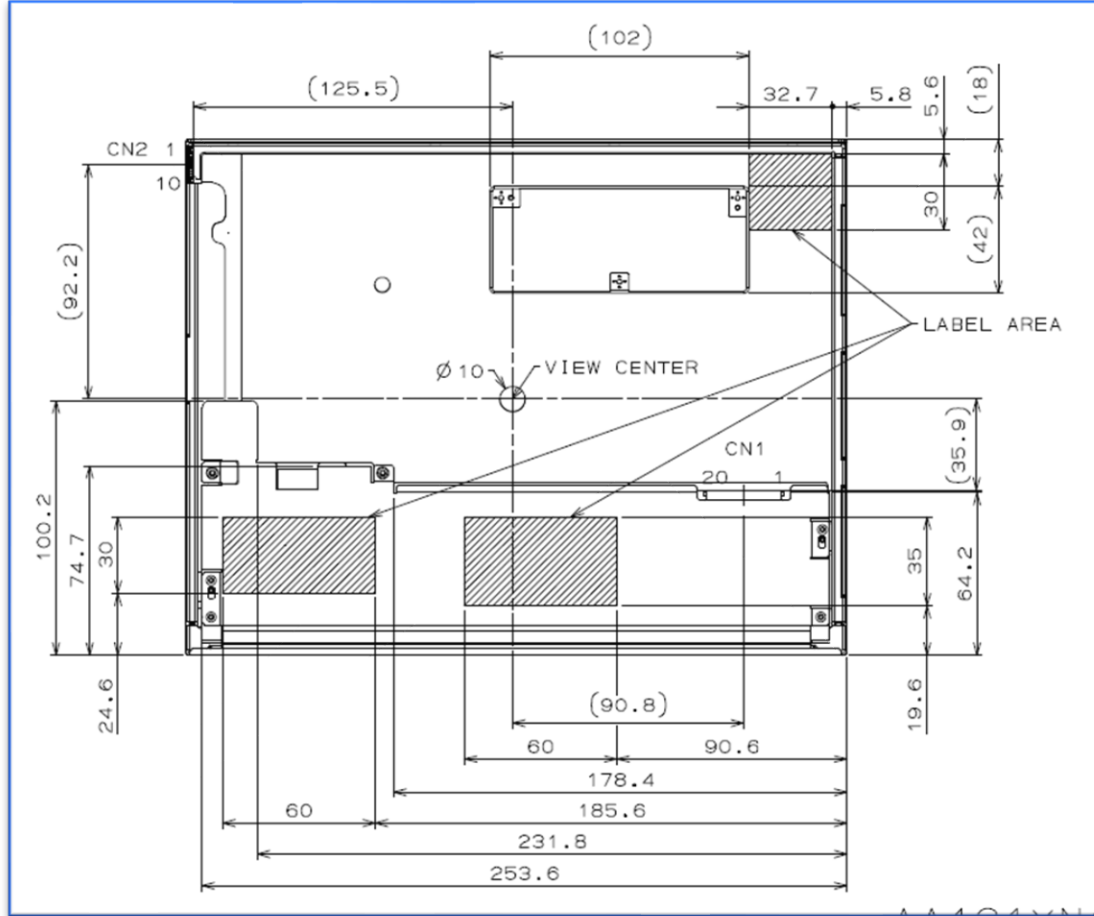
**EDT Solution
ET121030DVA**



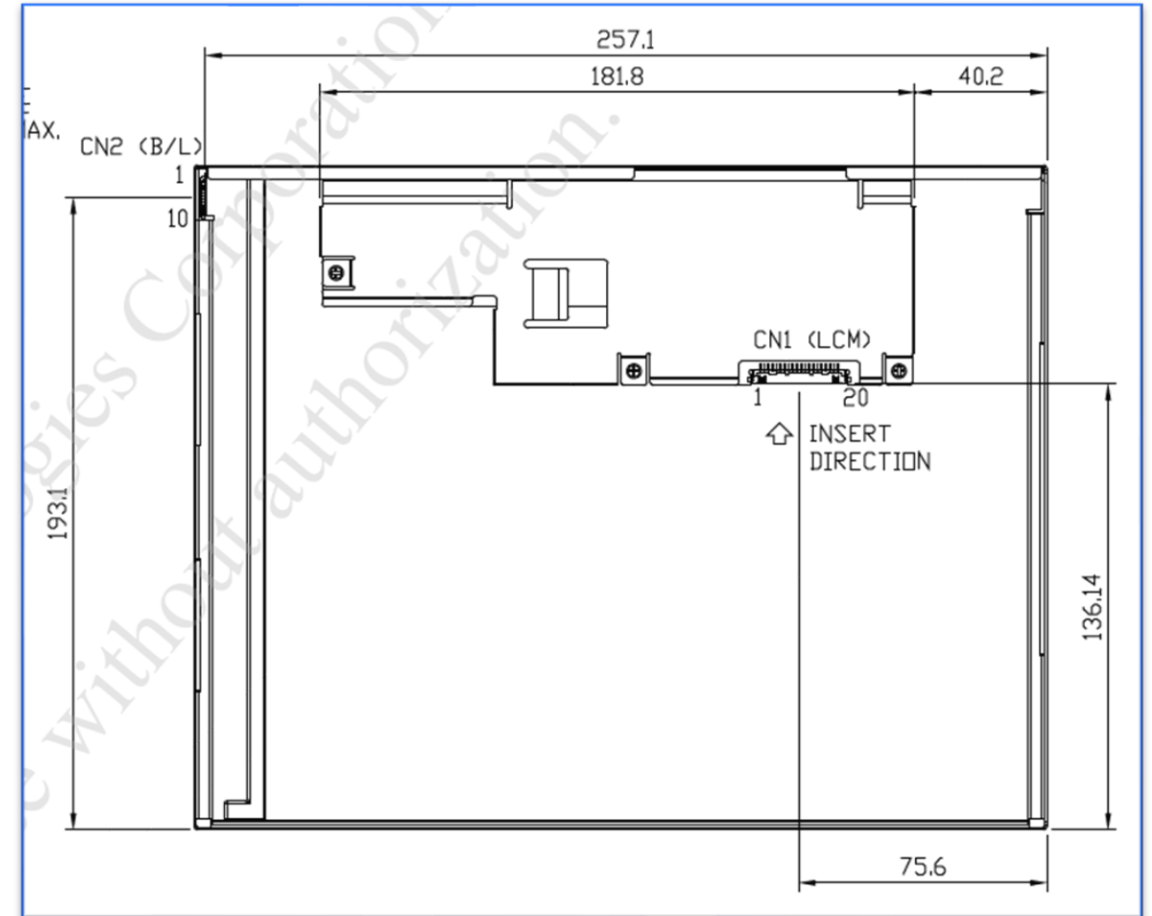
- ◆ The LCM design with mounting screws/holes/lugs is same as the Mitsubishi module

Drawing(Back side)

Mitsubishi
AA121XN11



EDT Solution
ET121030DVA



- ◆ Interface pin location is different than Mitsubishi module

LVDS Interface

Mitsubishi AA121XN11

Pin No.	Symbol	Function(ISP 6 bit compatibility mode)		Function(ISP 8 bit compatibility mode)
		6 bit input	8 bit input	
1	VCC	+3.3 V Power supply		←
2	VCC	+3.3 V Power supply		←
3	GND	GND		←
4	GND	GND		←
5	Link 0-	R0, R1, R2, R3, R4, R5, G0	R2, R3, R4, R5, R6, R7, G2	R0, R1, R2, R3, R4, R5, G0
6	Link 0+	R0, R1, R2, R3, R4, R5, G0	R2, R3, R4, R5, R6, R7, G2	R0, R1, R2, R3, R4, R5, G0
7	GND	GND		←
8	Link 1-	G1, G2, G3, G4, G5, B0, B1	G3, G4, G5, G6, G7, B2, B3	G1, G2, G3, G4, G5, B0, B1
9	Link 1+	G1, G2, G3, G4, G5, B0, B1	G3, G4, G5, G6, G7, B2, B3	G1, G2, G3, G4, G5, B0, B1
10	GND	GND		←
11	Link 2-	B2, B3, B4, B5, DENA	B4, B5, B6, B7, DENA	B2, B3, B4, B5, DENA
12	Link 2+	B2, B3, B4, B5, DENA	B4, B5, B6, B7, DENA	B2, B3, B4, B5, DENA
13	GND	GND		←
14	CLKIN-	Clock -		←
15	CLKIN+	Clock +		←
16	GND	GND		←
17	Link3-	See: *2)	R0, R1, G0, G1, B0, B1	R6, R7, G6, G7, B6, B7
18	Link3+	See: *2)	R0, R1, G0, G1, B0, B1	R6, R7, G6, G7, B6, B7
19	MODE	Low=ISP 6 bit compatibility mode		High=ISP 8 bit compatibility mode
20	SC	Reverse scan control (Low : Normal , High : Reverse)		←

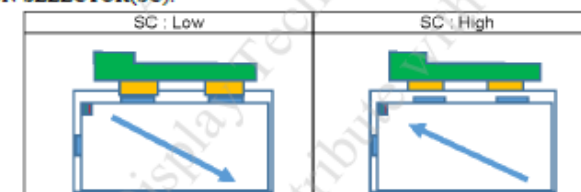
*1) Metal frame is connected to signal GND.

*2) Recommended wiring of Pin 17,18 (6 bit input)

EDT Solution ET121030DVA

PIN NO.	SYMBOL	FUNCTION (ISP 6 BIT COMPATIBILITY MODE)		FUNCTION (ISP 8 BIT COMPATIBILITY MODE)
		6BIT INPUT (JEIDA)	8BIT INPUT (JEIDA)	8BIT INPUT (VESA)
1	VDD	POWER SUPPLY(+3.3V)		
2	VDD	POWER SUPPLY(+3.3V)		
3	VSS	GROUND		
4	VSS	GROUND		
5	LINK0-	R0,R1,R2,R3,R4,R5, G0	R2,R3,R4,R5,R6,R7, G2	R0,R1,R2,R3,R4,R5, G0
6	LINK0+	R0,R1,R2,R3,R4,R5, G0	R2,R3,R4,R5,R6,R7, G2	R0,R1,R2,R3,R4,R5, G0
7	VSS	GROUND		
8	LINK1-	G1,G2,G3,G4,G5, B0,B1	G3,G4,G5,G6,G7, B2,B3	G1,G2,G3,G4,G5, B0,B1
9	LINK1+	G1,G2,G3,G4,G5, B0,B1	G3,G4,G5,G6,G7, B2,B3	G1,G2,G3,G4,G5, B0,B1
10	VSS	GROUND		
11	LINK2-	B2,B3,B4,B5, DE	B4,B5,B6,B7, DE	B2,B3,B4,B5, DE
12	LINK2+	B2,B3,B4,B5, DE	B4,B5,B6,B7, DE	B2,B3,B4,B5, DE
13	VSS	GROUND		
14	CLINK-	-LVDS DIFFERENTIAL CLOCK INPUT		
15	CLINK+	+LVDS DIFFERENTIAL CLOCK INPUT		
16	VSS	GROUND		
17	LINK3-	LVDS DATA HIGH***	R0,R1,G0,G1,B0,B1	R6,R7,G6,G7,B6,B7
18	LINK3+	LVDS DATA LOW***	R0,R1,G0,G1,B0,B1	R6,R7,G6,G7,B6,B7
19	MODE	LOW : JEIDA FORMAT**		HIGH : VESA FORMAT**
20	SC	SCAN DIRECTION SELECTOR (LOW: NORMAL; HIGH: REVERSE)*		

*SCAN DIRECTION SELECTOR(SC):



**THE PIN19 (MODE) AND PIN 20 (SC) ARE SET HIGH BY THE INTERNAL RESISTOR OF THE DRIVER IC.
SUGGEST TO SET HIGH OR PULL VSS INSTEAD OF FLOATING.

***THE PIN 17 AND PIN 18 SHOULD BE SET THE CONSTANT LEVEL OF THE LVDS FORMAT IN THE JEIDA 6BIT MODE.
REFERENCE ONLY

◆ Interface pin assignment is similar to the Mitsubishi module



If you have any questions do not hesitate to contact us
Thank you