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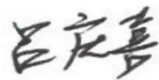
SPECIFICATION

FOR

AVD-IOT-DA-C021M

Customer Approval:

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	SIGNATURE	DATE
PREPARED BY		2021.04.24
CHECKED BY		2021.04.24
APPROVED BY		2021.04.24

Notes:

Please contact AVD before assigning your product based on this module specification.

2、To improve the quality of product, and this product specification is subject to change without any notice.

Rev No.	Rev date	Contents	Remarks
0	2021.04.24	First release	Preliminary

Directory

1. Product presentation.....	4
2. Interface definition.....	4
3. LCD Parameter.....	5
4. Backlight Parameter.....	5
5. Touch screen Parameter.....	5
6. Mechanical structures.....	6

1. Product presentation

AVD-IOT-DA-C021M is a 5-inch touch display module, suitable for retail self-help, POS machine, access control, conditional access, industrial automation and so on.

2. Interface definition

2.1 Power Supply Interface (12V IN)



2.2 Touch Panel Interface (TP)

Pin No.	Symbol	Description
1	VBUS	Power supply 5V
2	D-	USB data-
3	D+	USB data+
4	NC	NC
5	GND	Ground



Micro USB

2.3 HD DIS Interface

Pin No	Symbol	Pin No	Symbol
1	TMDS Data 2+	11	GND
2	GND	12	TMDS Clock -
3	TMDS Data 2-	13	CEC
4	TMDS Data 1+	14	Reserved
5	GND	15	SCL
6	TMDS Data 1-	16	SDA
7	TMDS Data 0+	17	GND
8	GND	18	+5V
9	TMDS Data 0-	19	Hot Plug Detect
10	TMDS Clock +		



TYPE-A

3. LCD Parameter

NO.	Item	content	unit
1	LCD size	5.0inch (Diagonal)	/
2	LCD type	IPS/Normally Black/Transmissive	/
3	Viewing direction(eye)	FREE	/
4	Resolution(H*V)	800*480 Pixels	/
5	Module size (L*W*H)	120.70*75.80*2.80	mm
6	Active area (L*W)	108.00*64.8	mm
7	Pixel pitch (L*W)	0.135*0.135	mm
8	Interface type	RGB 24Bit interface	/
9	Color Depth	16.7M	/
10	Back light type	LED	/

4. Backlight Parameter

(at Ta=25°C,RH=60%)

Item	Symbol	Min.	Typ.	Max.	Unit	Note
LED forward voltage	VF	14.5	15.5	16.5	V	IF=20*4mA
LED forward current	IF	-	80	-	mA	
LED power consumption	PLED	-	1.24	-	W	Note1
Number of LED	-		20		PCS	
Connection mode	-	5 in series 4 in parallel			/	
LED life-time	-	20000	-	-	Hrs	Note2

5. Touch screen Parameter

NO.	Item	content
1	Type	Capacitive touch
2	Power	5V
3	Support finger number	5 Point
4	Touch System Interface	Micro USB

6. Mechanical structures

