DMT10600T070_36WTC

Features:

- **Industrial Linux intelligent display terminal based on T113, running Linux5.4 operating system.**
- **7.0-inch, 1024*600 pixels resolution, 16.7M colors, IPS-TFT-LCD, wide viewing angle, Capacitive Touch, with shell.**
- **Adopt QT environment for secondary development.**
- **Available for multi-language, vector font library, picture library, video library and audio library.**
- **Compatible with network cable connection with PC to download update project.**
- **Available for RS232, RS485, CAN and Ethernet ports to connect and communicate with external devices.**

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Master Control Parameters

Properties	Parameters
Motherboard Level	Industrial
CPU	Dual-core ARM CortexTM-A7 Processor
OS	Linux5.4
FLASH	8GBytes EMMC
RAM	128MBytes DDR3

Display Parameters

Properties	Parameters	Description
Color	16.7M(16777216)colors	24 bit color 8R8G8B
Panel Type	IPS	IPS process, TFT LCM with wide viewing angle
Viewing Angle	85/85/85/85 (L/R/U/D)	Best view: symmetrical
Active Area (A.A.)	154.2mm (W)*85.88mm (H)	-
View Area (V.A.)	155.0mm (W)*87.5mm (H)	-
Resolution	1024x600	Available for 0°/90°/180°/270°rotated display
Backlight	LED	≥30000H(time of the brightness decaying to 50% on the condition of continuous working with the maximum brightness)
Brightness	250nit	100 levels adjustment(It's not recommended to set brightness to 1%~30% of the maximum, which may lead to LCD flicker.)
Note: You can use dynamic screen saver wallpapers to avoid afterimages caused by fixed page display for a long time.		

Voltage & Current

Properties	Conditions	Min	Typ	Max	Unit
Power Voltage	-	8.0	12.0	23	V
Operation Current	VCC = +12V, Backlight on	-	270	-	mA
	VCC = +12V, Backlight off	-	120	-	mA
Recommended power supply: 12V 1A DC					

Reliability Test

Properties	Conditions	Min	Typ	Max	Unit
Working Temperature	60%RH at 12V voltage	-20	25	70	℃
Storage Temperature	-	-30	25	80	℃
Working Humidity	25℃	10%	60%	90%	RH
Conformal coating	Yes				
ESD	Air discharge±8KV				
EFT	Group pulse interference ±2KV				
Protective Level	IP65 (Front)				

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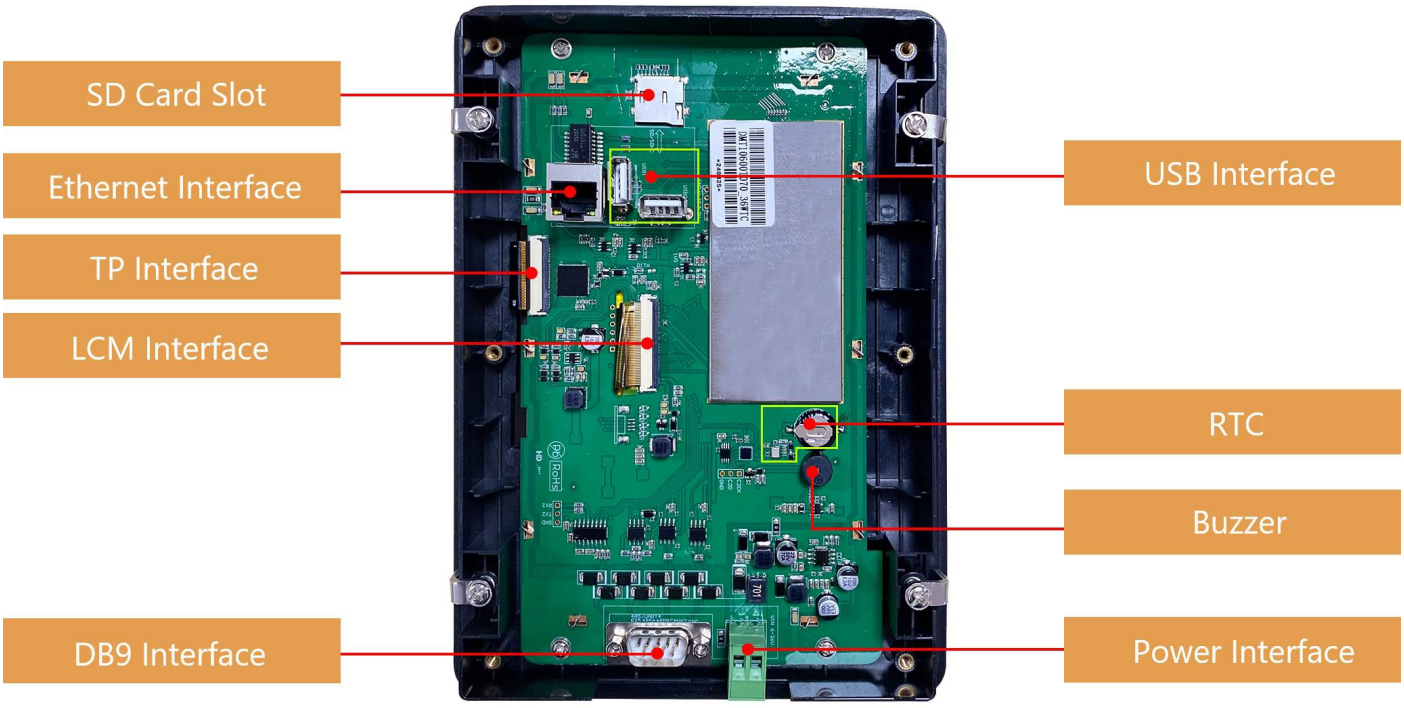
Peripheral and Interfaces

Properties	Parameters	Description
COM	1-way RS232	UART5
	1-way RS485	UART4
CAN Interface	2-way	Located within the DB9 interface
USB Interface	2-way	HOST*2
SD Card Slot	1-way	Drawer type card slot
Ethernet Interface	1-way	10/100Mbps
RTC	Built-in	Super-capacitor RTC. Accuracy: ±20ppm @25℃
Buzzer	Built-in	3V passive buzzer



Disclaimer:

There are multiple parallel raw materials coexisting to guarantee the stable supply.If customers have particular raw material preferences or requirements, please contact the sales personnel.

Interface Parameters

Properties	Conditions	Min	Typ	Max	Unit
Baud Rate	User-defined	3150	115200	3225600	bps
Output Voltage (TXD)	Output 1	-	-5.0	-3.0	V
	Output 0	3.0	5.0	-	V
Input Voltage (RXD)	Input 1	-15.0	-5.0	-	V
	Input 0	-	5.0	15.0	V
Interface	RS232*1, RS485*1, CAN*2				
Socket	2Pin-5.08mm Socket, DB9 interface				

Packing Capacity & Dimension

Dimension	210.0 (W) *150.0(H)*26.9(T)mm			
Net Weight	560g			
Packing Capacity				
Model	**Size**	**Layer**	**Quantity/Layer**	**Quantity(Pcs)**
Carton1:	220mm(L)*160mm(W)*47mm (H)	-	-	-
Carton2:	250mm(L)*200mm(W)*80mm (H)	2	1	2
Carton3:	320mm(L)*270mm(W)*80mm (H)	-	-	-
Carton4:	450mm(L)*350mm(W)*300mm(H)	1	16	16
Carton5:	600mm(L)*450mm(W)*300mm(H)	1	30	30

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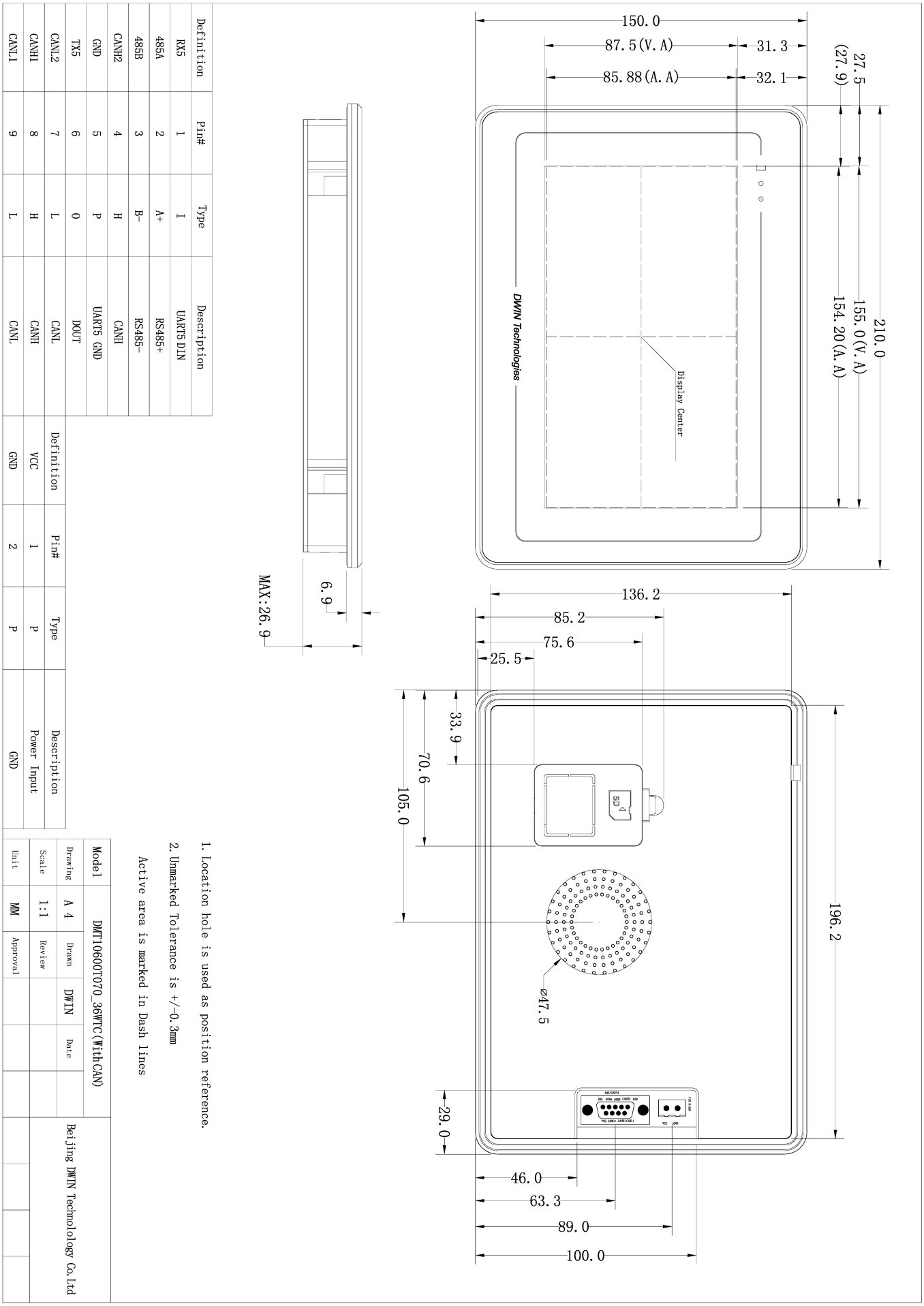

Definition	Pin#	Type	Description
RX5	1	I	UART5 DIN
485A	2	A+	RS485+
485B	3	B-	RS485-
CANH2	4	H	CANH
GND	5	P	UART5 GND
TX5	6	O	DOUT
CANL2	7	L	CANL
CANH1	8	H	CANH
CANL1	9	L	CANL

Definition	Pin#	Type	Description
GND	2	P	GND
VCC	1	P	Power Input

1. Location hole is used as position reference.
2. Unmarked Tolerance is +/-0.3mm

Active area is marked in Dash lines

Model	DMT10600T070_36WTC(WithCAN)		
Drawing	A4	Drawn	DWIN
Scale	1:1	Review	
Unit	MM	Approval	

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Installation Schematic

Waterproof rubber gasket (blue part in the schematic, actually in black): located between screen and shell to prevent water ingress. Additional glass glue is available for outdoor use to strengthen the waterproof performance

1

The opening requirements are shown in the figure.
Depth >20.0mm
Device front housing thickness <3.0mm

Install the screen from the front into the housing openings.

2

Loosen the screw, the snap automatically follows the screw to rotate 90° clockwise.

State before rotation

Lock the 4 screws to fix the product on the housing

State after rotation

3

Clip the back cover of the housing

Installation completed

The final effect

Revision records

Rev	Revise Date	Content	Editor
00	2022-12-12	First Edition	YML
01	2024-04-15	Interface change, adding CAN interface	YML

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