DMT10600T101_39WTC

Features:

- **Industrial Linux intelligent display terminal based on Allwinner T113-S3, running Linux5.4 operating system.**

- **10.1-inch, 1024*600 pixels resolution, 16.7M colors, IPS-TFT-LCD, wide viewing angle, capacitive touch, with shell.**

- **Adopt DWIN HMI configuration software for secondary development.**

- **Integrated PLC communication, alarm, sampling, formula and other database management, interface customization, macro command and other functions.**

- **Connect to a PC with a network cable to download and update projects.**

- **Available for RS232, RS485, RS422 and Ethernet port to connect and communicate with external devices.**

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● **Master Control Parameters**

Properties	Parameters
Motherboard Level	Industrial
CPU	Allwinner T113-S3 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 LCD with wide view angle
Viewing Angle	85/85/85/85 (L/R/U/D)	Best view angle: symmetrical
Active Area (A.A.)	222.7mm(W)*125.3mm(H)	-
View Area (V.A.)	222.7mm(W)*125.3mm(H)	-
Resolution	1024*600	Available for 0/90/180/270rotated 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: Please add animation to avoid residual images resulted by displaying of high-contrast still images for more than 30 minutes.

● **Voltage & Current**

Properties	Conditions	Min	Typ.	Max	Unit
Power Voltage	-	6.0	12.0	23.0	V
Operation Current	VCC = +12V, 100% brightness	-	370	-	mA
	VCC = +12V, Backlight off	-	130	-	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
Interface	1-way RS232	UART2
	1-way RS485	UART5
	1-way RS422	UART3
USB Interface	2-way	HOST*2
SD Card	1-way	Drawer type card slot Max 64G
LAN	1-way	10/100Mbps
RTC	Built-in	Super-capacitor RTC. Accuracy: 20ppm @25
Buzzer	Built-in	3V passive buzzer

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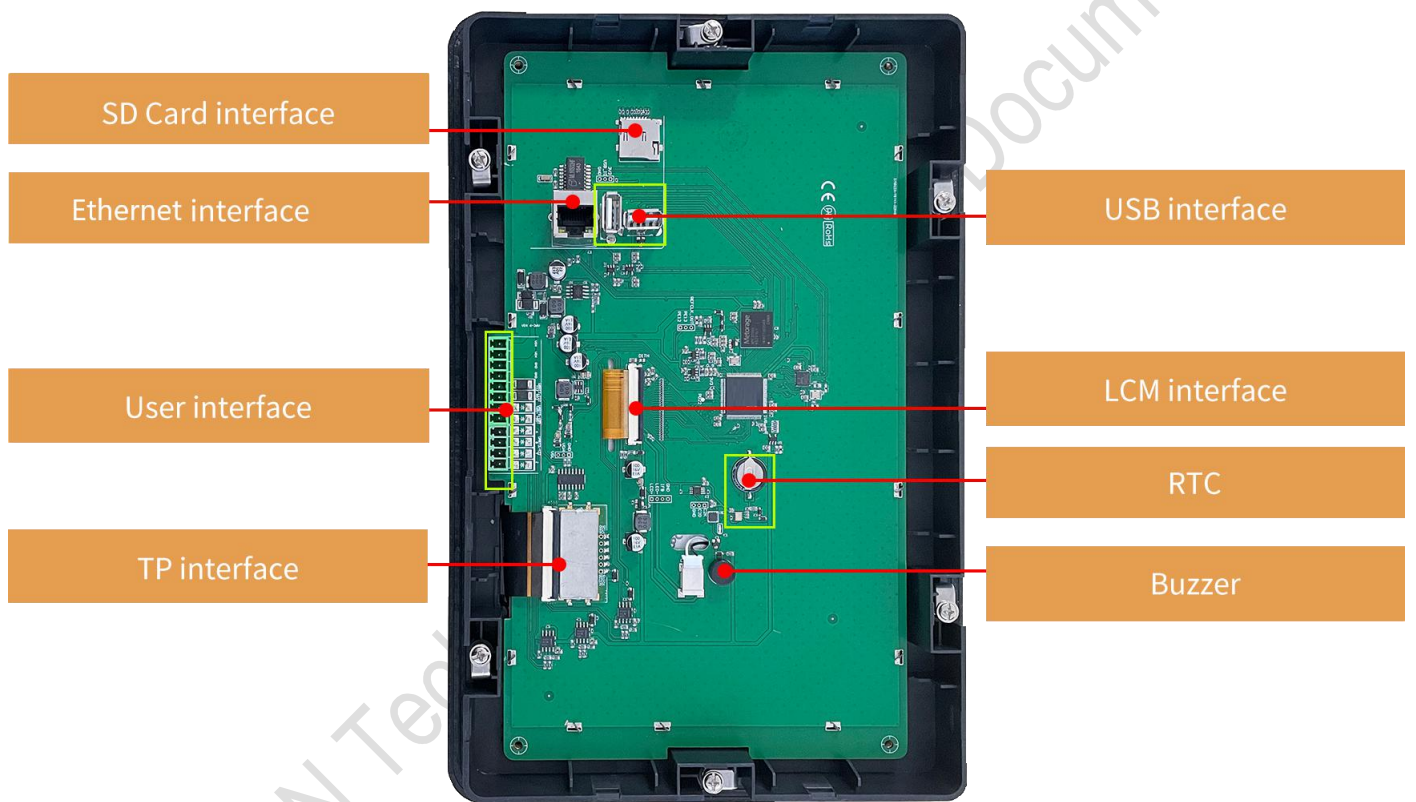
● **Interface Parameters**

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
Baud Rate	User-defined	3150	115200	921600	bps
Output Voltage V_AB	Output 1	2.5	5.0	-	V
	Output 0	-	-0.5	-2.5	V
Input Voltage V_AB	Input 1	0	2.5	-	V
	Input 0	-	-2.5	-0.2	V
Interface	RS232*1, RS485*1, RS422*1				
Socket	8Pin_3.81mm Socket, 4Pin_3.81mm Socket				

● **Packing Capacity & Dimension**

Dimension	
Dimension	290.0(W)*192.0(H)*29.5(T)mm
Net Weight	950g

Packing Capacity				
Model	Size	Layer	Quantity/Layer	Quantity (Pcs)
Carton1:	220mm(L)*160mm(W)*47mm (H)	-	-	-
Carton2:	250mm(L)*200mm(W)*80mm (H)	-	-	-
Carton3:	320mm(L)*270mm(W)*80mm (H)	-	-	-
Carton4:	450mm(L)*350mm(W)*300mm(H)	-	-	-
Carton5:	600mm(L)*450mm(W)*300mm(H)	1	8	8

Disclaimer:

The product design is subject to alternation and improvement without prior notice.

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.
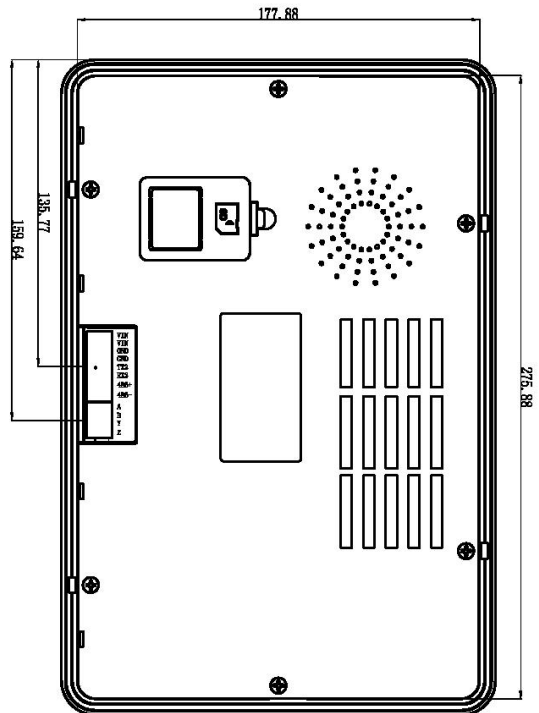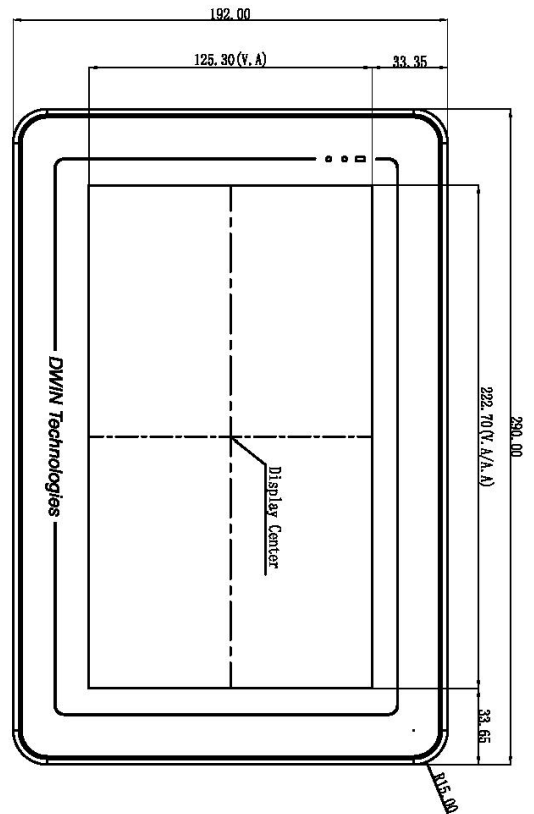
Definition	Pin#	IO	Description
VIN	1,2	P	Power Input
GND	3,4	P	GND
TX2	5	O	DOUT
RX2	6	I	DIN
485+	7	A+	485+
485-	8	B-	485-
A	9	-	RS422
B	10	-	RS422
Y	11	-	RS422
Z	12	-	RS422

1. Location hole is used as position reference.
2. Unmarked Tolerance is +/-0.3mm
Active area is marked in Dash lines

Model		DMT106000T101-39WTC				DWIN Technologies
Drawing	A4	Drawn	DWIN			
Scale	1:1	Review				
Unit	MM	Approval	Date	Date		

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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

276.9
178.9
21.5

The opening requirements are shown in the figure.
Depth >21.5mm
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 6 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	2022-10-24	First Edition	Lvzhi Chen
01	2022-12-12	Package, Interface Picture and Format Update	YML
01	2024-07-02	Update image	YML

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Thank you all for continuous support of DWIN, and your approval is the driving force of our progress!

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