

# DMT10600T101\_35WTC



## Features:

- Industrial Linux intelligent display terminal based on Allwinner A40i, running Linux3.10 operating system.
- 10.1-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.
- Connect to a PC with a network cable to download and update projects.
- Available for RS232 and RS485 port to connect and communicate with external devices.

## ● Master Control Parameters

Properties	Parameters
Motherboard Level	Industrial
CPU	Allwinner A40i Quad-core ARM CortexTM-A7 Processor
OS	Linux3.10
FLASH	8Gbytes EMMC
RAM	1Gbytes 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: You can use dynamic screen saver wallpapers to avoid afterimages caused by fixed page display for a long time.		

## ● Voltage & Current

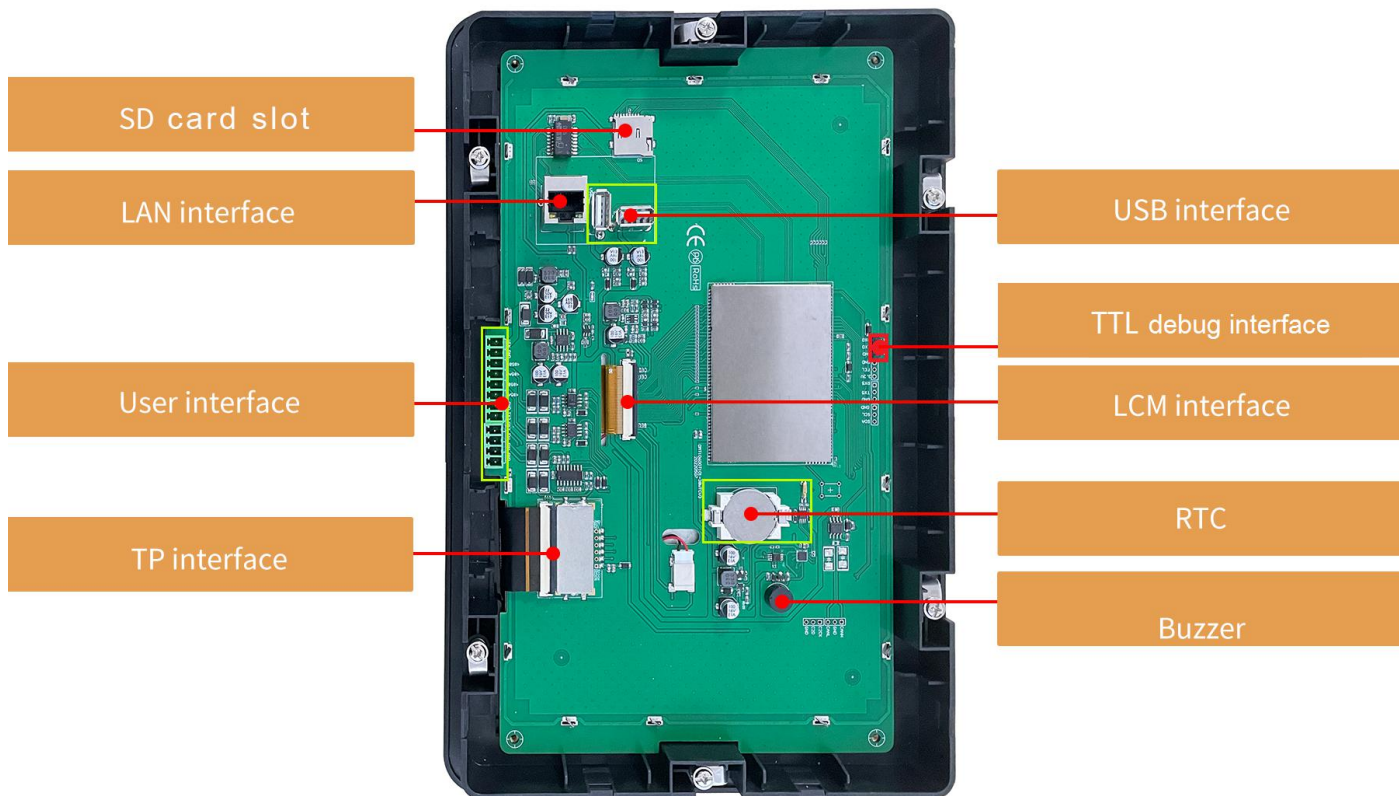
Properties	Conditions	Min	Typ.	Max	Unit
Power Voltage	-	9.0	12.0	36.0	V
Operation Current	VCC = +12V, 100% brightness	-	440	-	mA
	VCC = +12V, Backlight off	-	130	-	mA
Recommended power supply: 12V 1A DC					

## ● 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				

**Peripheral and Interfaces**

Properties	Parameters	Description
Interface	2-way RS232	UART1 & UART2
	2-way RS485	UART3 & UART4
USB Interface	2-way	HOST*2
SD Card Slot	1-way	Drawer type card slot Max 64G
LAN Interface	1-way	10/100Mbps
RTC	Built-in	Button cell for power supply, Accuracy: 20ppm @25
Buzzer	Built-in	3V passive buzzer



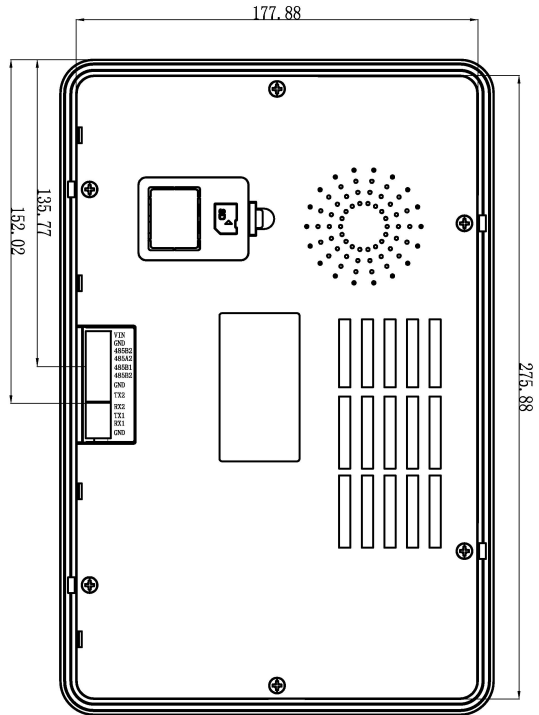
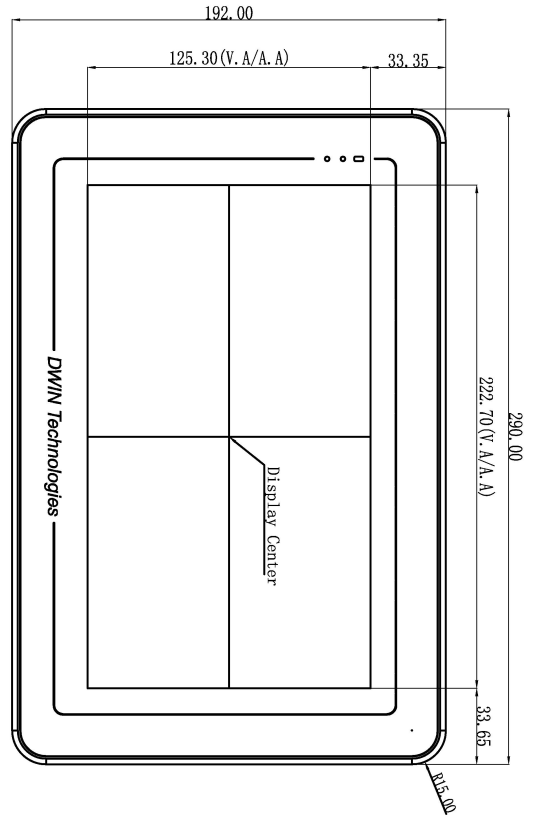
**● Interface Parameters**

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	-	-5.0	-2.5	V
Input Voltage (V_AB)	Input 1	0	2.5	-	V
	Input 0	-	-2.5	-0.2	V
Interface	RS232*2, RS485*2				
Socket	8Pin_3.81mm, 4Pin_3.81mm				

**● 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)	1	1	1
Carton4:	450mm(L)*350mm(W)*300mm(H)	1	5	5
Carton5:	600mm(L)*450mm(W)*300mm(H)	1	8	8

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



Definition	Pin#	I/O	Description
VIN	1	P	Power Input
GND	2, 7, 12	P	GND
485BP2	3	B-	485-
485A2	4	A+	485+
485B1	5	B-	485-
485A1	6	A+	485+
TX2	8	0	UART2 DOUT
RX2	9	I	UART2 DIN
TX1	10	0	UART1 DOUT
RX1	11	I	UART1 DIN

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

Model	DMT10600T101-35WTC			
Drawing	A 4	Drawn	DWIN	Date
Scale	1 : 1	Review		Date
Unit	MM	Approval		Date

DWIN Technologies

# 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 >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**

<b>Rev</b>	<b>Revise Date</b>	<b>Content</b>	<b>Editor</b>
00	2022-10-24	First Edition	Lvzhi Chen
01	2022-12-12	Package, Interface Picture and Format Update	YML

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