DMG10768T150_40WTCZOS-1



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System Hardware

| Properties | Parameters | | | |
|-------------------|--|--|--|--|
| Motherboard Level | Industrial-grade | | | |
| CPU | RK3566, Quad-core ARM Cortex-A55, 1.8GHz Processor | | | |
| os | Linux 4.19 | | | |
| Storage | 8Gbytes eMMC | | | |
| RAM | 2Gbytes LPDDR4 | | | |

Display Parameters

| Properties | Parameters | Description | |
|--|--------------------------|---|--|
| Size | 15.0 inch | - | |
| LCD Type | IPS, TFT LCD | - | |
| Viewing Angle | 85° /85° /85° /85° | Wide viewing angle, high contrast, and good color reproduction | |
| Active Area (AA) | 304.13mm(W)x228.10mm(H) | - | |
| Viewing Area(VA) | 305.50mm(W)x 229.50mm(H) | - ~ | |
| Resolution | 1024x768 | - | |
| Backlight Service Life | >20000 Hrs | Backlight service life refers to the period the LED backlight operates under test conditions until brightness decreases to 50% of the initial level | |
| Brightness | 300nit | 100-level brightness adjustment (Flickering may occur at 1%-30% of max brightness; not recommended for use in this range) | |
| Note: Use dynamic screen saver to prevent afterimages from prolonged fixed page display. | | | |

Touch Parameter

| Properties | Parameters | |
|------------|------------------------|--|
| Touch Type | Capacitive touch panel | |

Power Supply

| Properties | Min | Тур | Max | Unit | |
|-------------------------------------|------|------|------|------|--|
| Power Voltage | 12.0 | 12.0 | 36.0 | V | |
| Recommended power supply: 12V 1A DC | | | | | |

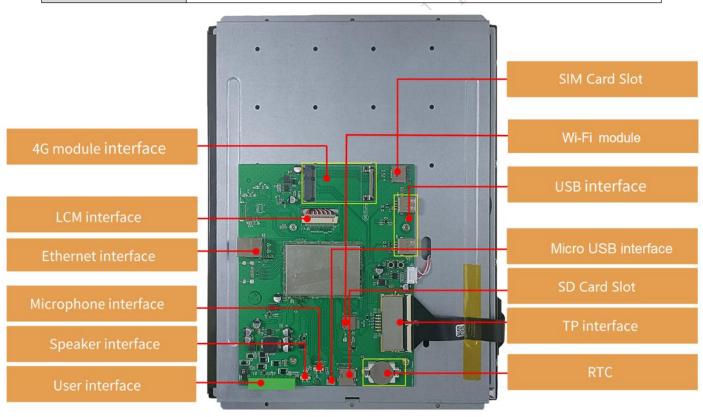
Environment & Reliability Test

| Properties | Conditions | Min | Тур. | Max | Unit |
|---|-------------------------------------|-----|------|-----|------------|
| Working Temperature | 60%RH at 12V voltage | -20 | 25 | 65 | $^{\circ}$ |
| Storage Temperature | - | -30 | 25 | 80 | $^{\circ}$ |
| Working Humidity 25°C | | 10% | 60% | 90% | RH |
| Conformal Coating | Y | | | | |
| ESD | Air: ±8KV, Contact: ±6K | | | | |
| EFT | Group pulse interference ± 2 KV | | | | |
| Additional cooling required for operation above 65°C. | | | | | |

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Peripherals and Interfaces

| Properties | Description | | |
|-------------------|---|--|--|
| User Interface | 10Pin_3.81mm horizontal socket | | |
| сом | RS232*2(COM5 & COM9), RS485*1, TTL*1(COM0) | | |
| Ethernet | 10/100Mbps | | |
| USB | USB 2.0*2(HOST), Micro USB*1(OTG) | | |
| SD Card | Max. 64G | | |
| RTC | Button cell for power supply. Accuracy: ±20ppm @25℃ | | |
| Speaker | 2Pin_1.25mm interface*1 | | |
| Microphone | 2Pin_1.25mm interface*1 | | |
| 4G Module | Factory not configured, customizable to add | | |
| Camera Interface | USB 2.0 interface | | |
| Wi-Fi | IEEE 802.11b/g/n, 2.4G, Wi-Fi 4 | | |
| Bluetooth Version | BT4.2 | | |



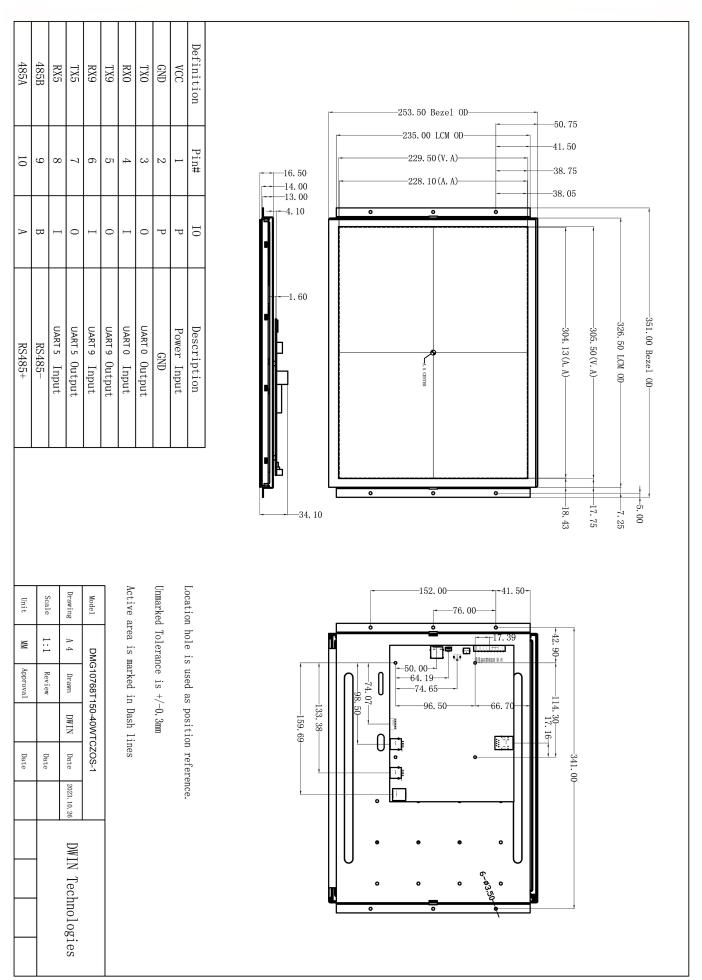
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Development Platform

| Development | |
|-------------|-----------|
| Linux | Debian 10 |

Packing Capacity & Dimension

| Dimension | 351.00(W)*253.50(H)*34.10(T)mm | | | |
|------------------|--------------------------------|-------|----------------|---------------|
| Net Weight | 1430g | | | |
| Packing Capacity | | | | |
| Model | Size | Layer | Quantity/Layer | Quantity(Pcs) |
| Carton1: | 220mm(L)*160mm(W)*47mm (H) | ı | - | - |
| Carton2: | 250mm(L)*200mm(W)*80mm (H) | - | - | - |
| Carton3: | 320mm(L)*270mm(W)*80mm (H) | ı | - | - |
| Carton4: | 450mm(L)*350mm(W)*300mm(H) | - | - | - |
| Carton5: | 600mm(L)*450mm(W)*300mm(H) | 1 | 10 | 10 |
| | 600mm(L)*450mm(W)*300mm(H) | 1000 | | |



Revision Records

| Rev | Revise Date | Content | Editor |
|-----|-------------|---|--------|
| 00 | 2024-10-12 | First edition | Chen |
| 01 | 2025-03-13 | Add the description of Bluetooth | Chen |
| 02 | 2025-06-17 | Update the description of Wi-Fi module and the range of temperature | Chen |

Please contact us if you have any questions about the use of this document or our products, or if you would like to know the latest information about our products:

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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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