
User manual

Android Screen

F10G18P-6W-BT

Mycontrol

Product specification



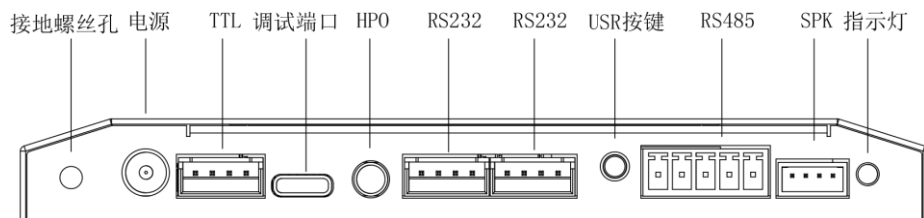
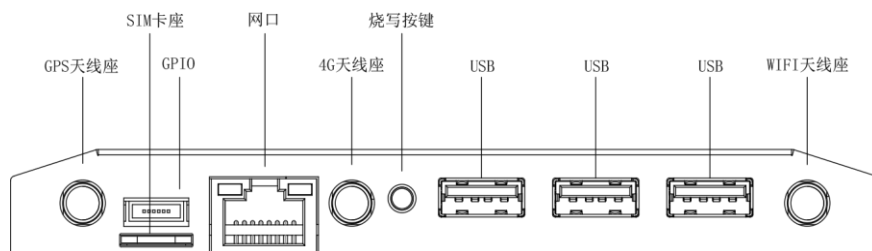
Version No.	Releasedate
V -1.0	2022-12

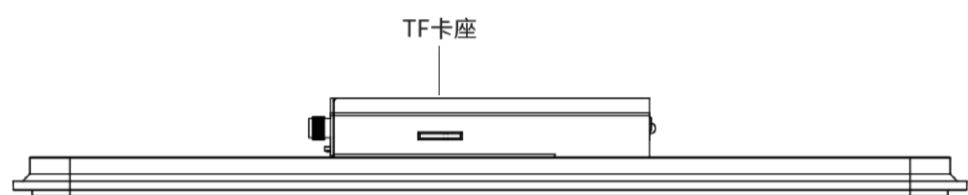
Use environment and precautions

- Power supply DC12V $\pm 5\%$ /DC24V $\pm 5\%$ power supply, typical maximum current is 1.5A, the power supply requires ripple noise $< 120\text{mV}$;
 - Working environment temperature range $-10^{\circ}\text{C} \leq t \leq 60^{\circ}\text{C}$, working environment humidity is less than 90%RH, storage environment temperature range $-20^{\circ}\text{C} \leq t \leq 70^{\circ}\text{C}$;
 - Avoid use in the outdoor without shelter, avoid direct sunlight and rain;
 - It is strictly prohibited to install a cover plate on the touch surface of the equipment to avoid the failure of the touch function;
 - It is strictly prohibited to place the antenna inside the metal housing to avoid network disconnection or instability;
 - Applications should avoid writing large amounts of data frequently to prevent the EMMC storage unit from reaching the life limit and causing the system to fail to work;
 - Avoid the use of vehicle and all kinds of vibration environment, so as to avoid poor interface contact;
 - It is strictly prohibited to dismantle the machine without permission for maintenance;
- * This is A Class A product. In the living environment, changing the product may cause radio interference, in which case the user may be required to take practical measures for interference.

F10G18P-6W-BT Product Description:

The F10G18P-6W-BT is equipped with the Android10 mainstream operating system, which has the characteristics of higher system version, lower memory consumption and higher operating efficiency. With 10.1 inch full view LCD screen, 3 points anti-interference capacitive touch, the whole machine electrostatic ESD 3, pulse group EFT 3, surge 3. The whole machine is completely closed design, and the touching surface is IP65 dustproof and waterproof. The structure space is small, the installation is simple, suitable for flat installation, can meet the indoor and semi-outdoor environment use.





The F10G18P-6W-BT Product parameters:

The F10G18P-6W-BT core parameters	
CPU processor	A133P/ 4-core A53 clocked at 1.8GHz
Running memory	2GB (optional 1G, 4G)
EMMC	16GB (optional 8G, 64G)
GPU	GE8300
Android	Android10
Product size	10.1"
Brightness	450cd/m ²
Resolution	800 * 1280
Perspective	Full View
Touch form	3 point capacitor form
Overall dimensions	262.3 x 176.3 x 26.6mm

Brightness parameters	Min	Typ	Max
Brightness (cd/m2)	380	450	—

The F10G18P-6W-BT Interface parameters	
Serial port	2 channels RS232, 2 channels RS485, 1 channel TTL
USB	3 way USB HOST, 1 way USB DEVICE
Audio	1 channel mono MIC/ dual channel HP0, 1 channel dual channel SPK
Ethernet	1 way 10/100Mbps adaptive network interface
WIFI	WiFi 2.4G comes standard WiFi62.4G/5G WiFi is optional
Bluetooth (optional)	WiFi6 comes standard with BT 5.0 and occupies the RS232-1 interface
LED	1 way, system indicator light
Power Supply	1 way, DC12V±5/DC24V±5 power supply, DC5.5*2.1MM%%
Keys	2 way, 1 way burn write key, 1 way function key
TF card	1 way TF card

GPIO	4 channels, default 3.3V power, 3.3V level bidirectional IO, optional 5V power supply, 5V level bidirectional IO
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※ Please consult the Sales Manager for price and delivery of all options in the list

Note:

The RF chip support BT/WIFI/LTE/GPS function, Use the software shielding LTE/GPS function will not work.

The F10G18P-6W-BT Environmental parameters	
Operating temperature width	-10 ~ 60°C
Storage temperature width	-20 to 70 ° C
Operating humidity	5 to 90 RH%
Storage humidity	0 to 95RH%
Electrostatic discharge immunity ESD	Level 3
Electrical Fast transient pulse group Immunity EFT	Level 3 RS232, RS485, USB, Ethernet, Power source
SURGE (shock) immunity surge	Level 3 RS485, Ethernet, power
Conductive-disturbance immunity CS for RF field induction	Level 3 Power Supply
Radiation electromagnetic disturbance (magnetic field emission) RE	Class B

The F10G18P-6W-BT Hardware interface description

Serial Ports

- RS232 adopts XH2. 54-4P white connector, VCC power supply is 5V, the total current of 2 RS232 serial ports cannot exceed 400mA
- RS485 adopts KF2EDGR-3. 5-5P connector
- TTL adopts XH2. 54-4P blue connector, TTL level is 3.3V, VCC power supply is 3.3V, the total current of 1 TTL serial port can not exceed 200mA

Interfaces	Pins	Pin definition	Device node	Electric level	Serial port number
RS232					
RS232-0	1	G	ttyS0	RS232	UART0
	2	T0			
	3	R0			
	4	VCC			
RS232-1	1	G	ttyS1	RS232	UART1
	2	T1			
	3	R1			
	4	VCC			
RS485					
RS485	1	B4	ttyS4	RS485	UART4
	2	A4			
	3	G			
	4	B3	ttyS3		UART3
	5	A3			
TTL					
TTL	1	G	ttyS2	TTL	UART2
	2	T2			
	3	R2			
	4	VCC			

USB port

- Has integrated 3 USB-hosts, using a single layer USB TYPEA seat.
- USB-HOST uses 5V output power supply, the total current can not exceed 1.5A
- The first USB-DEV interface uses Type-C interface, which can only be used for system writing and ADB debugging

Audio interface

- HPO is a headphone microphone integrated interface, mono MIC input + dual channel HPO output, using 3.5mm round hole connector, microphone default international standard
- SPK is the speaker port and the power amplifier circuit is dual channel 8Ω/10W. The default power amplifier circuit is 8Ω/5W. You can configure the power amplifier to 8Ω/10W in

Port	pin	Pin definition
SPK	L+	Positive left channel
	L-	Negative left channel
	R-	Negative right channel
	R+	Right channel positive

Ethernet interface

- 1 100 Mbit/s adaptive Ethernet port is led out by RJ45
- IP addresses are assigned in DHCP mode by default. If you need to manually configure IP addresses, you can configure them in Advanced Settings

WIFI module

- Standard 2.4G WiFi, WiFi standard IEEE802.11b /g/n
- Optional 2.4G/5G WiFi, WiFi standard IEEE 802.11b/g/n/ac/ax

Bluetooth (optional)

- WiFi6 comes standard with BT 5.0 and occupies the RS232-1 interface

LED interface

- 1 SYS system indicator light, startup phase 1 LED off, startup phase 2 LED on, startup phase 3 heartbeat light on.

Button

- 1 way FLASH burn key with the key flush with the case.
- 1 way USER function key, key protruding the shell, key default Settings are as follows: Click: return

Press and hold (>2S) to broadcast: com.mc.android.USER_KEY_LONG_CLICK

TF card

- Supports hot swap detection
- Support MMC protocol V4.5 and SD Memory Card protocol V3.0

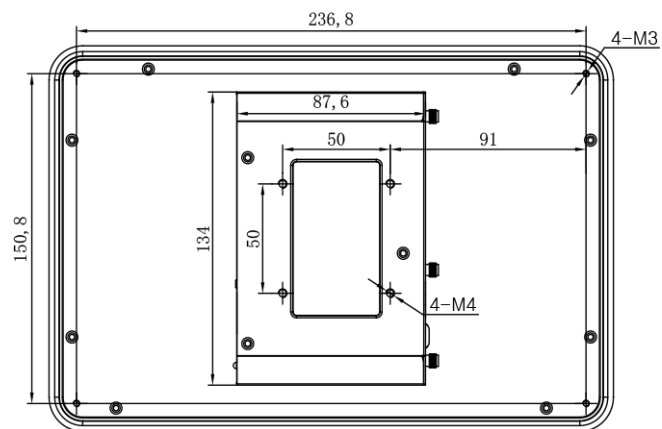
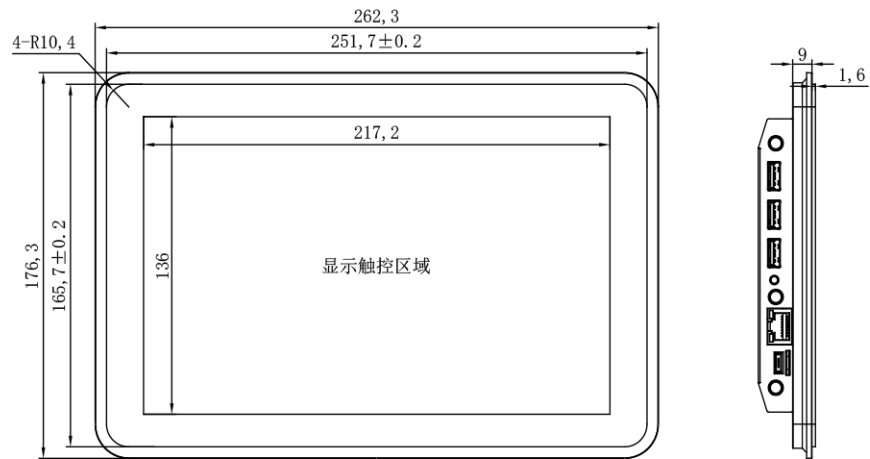
GPIO

- GPIO uses HX1.25-6P connector to provide default 3.3V power supply, 3.3V level two-way IO, optional 5V power supply, 5V

EnjoySDK

EnjoySDK is a set of SDK developed based on the Android intelligent device system of Hangzhou Meichun Technology for the convenience of customers for secondary development. With rich Android hardware control interfaces, EnjoySDK is suitable for industry application development.

EnjoySDK, EnjoySDK instances and other commonly



FCC Caution.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.