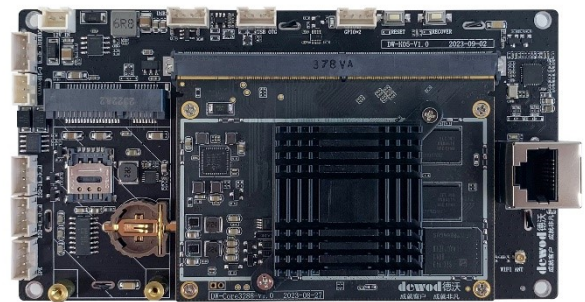


H05D20 All-in-one Panel PC

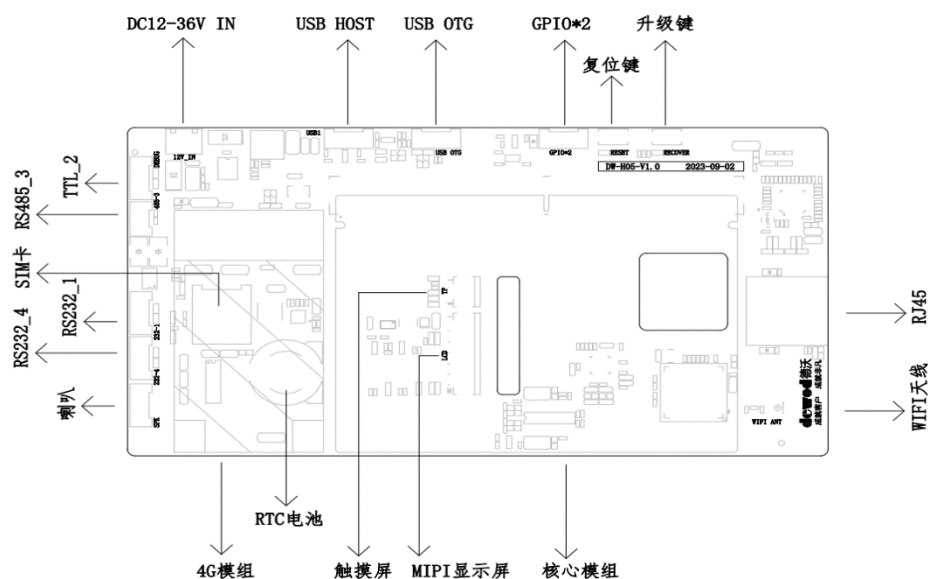
Specifications

Pictures



Product description

H05D20 is equipped with Android 5.1 (or above) mainstream operating system, equipped with a 5-inch full-viewing LCD screen and capacitive touch screen to form a powerful human-computer interaction system. The product has a thin, flat appearance, high overall fit, and is easy to install, and can be used in indoor and semi-outdoor environments.



Product parameters:

Core parameters			
CPU	RK3288/4 core frequency 1.6GHz		
RAM	2GB		
EMIC	16GB		
GPU	ARM Mali-T764		
Brightness	300cd/m ²		
Resolutions	720*1280		
Perspective	Full view		
Touch form	5 points (capacitive touch)		
Overall size	143*76.7*29.2mm. Total weight 0.4kg		
Brightness parameter	Min	Typ	Max
	--	300	--
Interface parameters			
Serial port	2* RS232, 1* RS485		
USB	1* USB HOST, 1* USB DEVICE		
Audio	Dual SPK interface		
Ethernet	1, 10/100Mbps adaptive network interface		
GPIO	2, 5.0 V level bidirectional IO		
Wi-Fi	1, WIFI 2.4G, support BT4.0		
4G (optional)	1, CAT1/CAT4 4G module		
GPS (optional)	1 needs to be replaced with a 4G module with GPS function, which supports Beidou and GPS dual positioning.		
SIM card	1, flip-top MICRO-SIM card holder		
LED	1 system indicator light		
Power supply	1 channel XH2.54-2P socket, voltage range: DC12V±5% to DC36V ±5%		
Button	2, 1 power button, 1 burning button		

Hardware interface description

serial port

- RS232, RS485 and GPIO share the PH2.0 connector
- DEBUG optional TTL

Note: The UART2 serial port is a debugging interface. Print information will appear when starting up. It can be used as common serial port use.

Interface	PIN	Pin definition	Device node	level	Serial No.
RS232					
RS232-1	1	VCC	TtyS1	RS232	UART1
	2	TX1			
	3	RX1			
	4	G			
RS232-4	1	VCC	TtyS4	RS232	UART4
	2	TX4			
	3	RX4			
	4	G			
RS485					
RS485	1	B	TtyS3	RS485	UART3
	2	A			
	3	G			
TTL					
TTL2(optional)	1	VCC	TtyS2	TTL	UART2
	2	TX2			
	3	RX2			
	4	G			

USB interface

- 1 channel of USB-HOST has been integrated, and 1 channel uses USB PH2.0-4PIN socket.
- USB-HOST uses 5V output power supply, and the total current cannot exceed 800MA
- 1 USB-OTG interface adopts PH2.0-4pin interface. This interface can be used for system programming and ADB debugging, and can also be used as a normal USB port.

Interface	PIN	Pin definition	Device node	level	Serial No.
USB					
USB-OTG	1	VCC		USB	The total current cannot exceed 800MA
	2	DM			
	3	DP			
	4	G			
USB-HOST	1	VCC		USB	The total current cannot exceed 800MA
	2	DM			
	3	DP			
	4	G			

Audio port

- The power amplifier circuit of the SPK interface is mono 4Ω/5W, using PH2.0-4P connector package

Interface	PIN	Pin definition
SPK	SRP	Right channel positive

	SRX	Right channel negative
	SLX	Left channel negative pole
	SLP	Left channel positive pole

Ethernet interface

- Lead out a 100M adaptive Ethernet interface through RJ45
- The default DHCP method allocates IP. If you need to manually configure the IP address, you can configure it in the advanced settings.

GPIO interface

- GPIO uses the PH2.0-4P connector.

Interface	PIN	Pin definition	GPIO	IO level	Default level input Output	Input/ Output
GPIO	1	VCC	/	/	5.0 V	Output
	2	PL6	GPIO1	5.0 V	/	two-way
	3	PL7	GPIO2	5.0 V	/	two-way
	4	G	/	/	OV	/

WIFI/BT module

- Optional 2.4G WiFi, 1-way BT4.0, WiFi standard IEEE802.11 b/g/n
- Optional 2.4G WiFi, WiFi standard IEEE802.11 b/g/n

4G module

- Optional CAT1 4G module

Operator	Frequency band	Support status
Mobile 4G IoT	FDD:B1/B3/B5/B8 TDD:B34/B38/B39/B40/B41	Support
China Unicom 4G IoT		Support
Telecom 4G IoT		Support

- Optional CAT4 4G module

Operator	Frequency band	Support status
Mobile 2G 3G 4G IoT	FDD: B1/B3/B5/B8 TDD: B34/B38/B39/B40/B41 WCDMA: B1/B8 TD-SCDMA: B34/B39 EVDO/CDMA: BC0 GSM: B3/B8	Support
China Unicom 2G 3G 4G IoT		Support
Telecom 2G 3G 4G IoT		Support

- Optional CAT4 4GE global communication module

Operator	Frequency band	Support status
2G 3G 4G IoT	LTE-FDD: B1/ B2/ B3/ B4/ B5/ B7/ B8/ B12/B13/ B18/ B19/ B20/ B25/ B26/ B28 LTE-TDD: B38/ B39/ B40/ B41 WCDMA: B1/ B2/ B4/ B5/ B6/ B8/ B19 GSM/EDGE: 850/900/1800/1900	Support

GPS

- Optional 4G module with GPS function, which can be placed in an open outdoor location with a dedicated GPS active antenna to achieve positioning function.
- Can support Beidou and GPS dual positioning

SIM card holder

- The SIM card holder is a flip-type MICRO-SIM card interface.
- Does not support hot swapping. Power off and restart is required for plugging and unplugging.

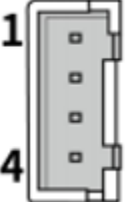
LED interface

- SYS will flash when the system is running normally and stop flashing when it is abnormal.

Power interface

Power interface					
DC input	1	VCC	Ttys1	RS232	UART1
	2	GND			

Connector interface correspondence

	1
	2
	3
	4

Drawing dimension

