

深圳金亚太科技有限公司
Shenzhen Geniatech Co.,Ltd.

SPECIFICATION

MODEL:TPC1560K2

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Revision History

VERSION	DATE	BOARD ID	PAGE	DESCRIPTION	AUTHOR
V1.0	2022/05/10	TPC1560K2	4		

1. GENERAL DESCRIPTION

- (I) TPC1560K2 is an Android Customized Tablet PC with below new features :
- (II) support 15.6"(18.5"/21.5"/23.6"/27"/32" optional) Color TFT LCD, 10points projected capacitive touch screen
- (III) Rockchip RK3399 ARM Dual-core ARM Cortex-A72 MPCore processor@1.8GHz and Quad-core ARM Cortex-A53MPCore processor @1.4GHz
- (IV) ARM Mali-T860MP4 GPU, support OpenGL ES1.1/2.0/3.0, OpenCL1.2, DirectX11.1
- (V) support Android 10.0 / Linux Debian OS (optional)
- (VI) Support 2GB/4GB LPDDR4, 8G~128GB eMMC flash, external expansion USB storage (optional)
- (VII) Ethernet 10/100/1000M interface
- (VIII) IEEE 802.11a/b/g/n/ac (2.4G&5.8G) +BT5.0 (optional)
- (IX) Support mini PCIE LTE (Global standard)
- (X) 1 * HDMI In / 1 * HDMI Out, support 4K video play (optional)
- (XI) 1 * LVDS, 1 * eDP (optional)
- (XII) GTIOT: Z-WAVE / ZIGBEE / LoRa / LTE / GPS / WiFi / BT5.0
- (XIII) Support DVB-T2/T/C, ATSC1.0/3.0, ISDB-T, DTMB (optional)
- (XIV) 1 * USB3.0 + 3 * USB2.0 (built-in)
- (XV) Support WDT&RTC + 1*POE + 1*RS232 + 1*GPIO + 1*SPK (MAX: 2*5W8Ω)
- (XVI) Designed for retail, interactive communication

2.PRODUCT OVERVIEW

Below pictures are for reference only , please prevail in kind.



2.1 INTERFACES VIEW

No.	Name	Description
1	Ethernet	1 * RJ45 (LED), 10/100/1000M
2	HDMI In / out	1 * HDMI (optional)
3	RS232/ Earphone &MIC	1 * 3.5mm jack(optional)
4	Update key	1 * 3.5mm jack back
5	USB 3.0 (OTG)	1 * USB 3.0 Type A (support USB upgrade / USB Host)
6	Micro SIM	1 * Micro SIM
7	Tuner RF	1 * RF Jack for tuner module (MMCX)
8	DC IN	1 * DC IN (Φ 5.5φ2.1mm)
9	Power Switch	1 * Power Switch(Auto power on by default)

3.FEATURES

CHIPSET	Rockchip RK3399	
MARKET AREA	Global	
OSD LANGUAGE	English/Chinese (multi language OSD)	
Processor	OS	Android 10.0 / Linux Debian
	CPU	Dual-core ARM Cortex-A72 MPCore processor @1.8GHz and Quad-core ARM Cortex-A53MPCore processor @1.4GHz
	GPU	ARM Mali-T860MP4 GPU, support OpenGL ES1.1/2.0/3.0, OpenCL1.2, DirectX11.1 etc.
	LPDDR4	2GB (4G Optional)
	EMMC FLASH	16GB (8~128G Optional)

NETWORK	Ethernet	RJ45, 10/100/1000M
	WiFi	IEEE 802.11a/b/g/n/ac , 2X2 MIMO
	Bluetooth	BT5.0 (Optional 4.2)
	3G/4G	1 * Mini PCIE (Optional)
GTIOT		Support :Z-WAVE / ZIGBEE / LoRa / LTE / GPS / WiFi / BT5.0
DTV		Tuner standard: DVB-T2/T/C, ATSC1.0/3.0, ISDB-T, DTMB
POE		802.3at (Optional)
Interface	HDMI OUT	1 * HDMI (Optional)
	HDMI IN	
	RJ45	1 * RJ45(LED)
	POE	
	Tuner RF	1 * RF Jack for tuner module (MMCX)
	USB Host	1 * USB 3.0 (OTG)
	SIM	1 * Micro Sim + 1 * built-in mini PCIE (LTE)
	RS232	1 * 3.5mm jack (Optional)
	Earphone&Mic	
	Update	1 * Switch (3.5mm jack back)
	Power Switch	1 * Power Switch (Auto power on by default,Optional)
	DC IN	1 * DC IN
Speakers		2 * 8R3W (8R5W Optional)
Camera		1 * Front 2M pixels (5M Optional)
Adapter		1 * DC 12V / 3A (US/EU/UK/AU Optional)
Accessory		1 * Adapter (AC100 ~ 240V 50/60Hz , Φ 5.5 ϕ 2.1mm) , 1 * bracket
Customizable GUI		We provided GUI customization and we have a vast collection of Launcher created by our R&D team for you to choose from.

Display

Display	size	15.6"	18.5"	21.5"	23.6"	27"	32"
	Interface type	eDP	LVDS	LVDS	LVDS	LVDS	LVDS
	Resolution(Max)	1920*1080	1366*768	1920*1080	1920*1080	1920*1080	1920*1080
	Contrast	500:1	1000:1	1000:1	1000:1	3000:1	1200:1
	Brightness cd/m2	220	250	250	250 c	300	350
	Screen	16:9	16:9	16:9	16:9	16:9	16:9
	Voltage	3.3V	5.0V	5.0V	5.0V	5.0V	12.0V
	LCD Panel	FT-LCD	TFT-LCD	TFT- LCD	TFT- LCD	TFT- LCD	TFT- LCD
Touch Screen Capacitive		10 Point	10 Point	10 Point	10 Point	10 Point	10 Point

Note: The actual product shall prevail

4.Support Formats

Media Remark	Codec	Remark
Video decoder	MPEG-1	MP/HL up to 1080P@60fps (ISO-11172-2)
	MPEG-2	MP/HL up to 1080P@60fps (ISO-13818-2)
	MPEG-4	ASP@L5 up to 1080P@60fps (ISO-14496-2)
	MVC	up to 1080P@60fps
	H.264	AVC HP@L5.1 up to 4Kx2K@30fps
	H.265	HEVC MP-10@L5.1 up to 4Kx2K@60fps
	VC-1	SP/MP/AP up to 1080p@60fps
	VP9	4Kx2K@60fps
Video Encoder	H.264	UP to HP@level4.1,Maximum frame rate is up to 1920x1080@30FPS
	MVC	
	VP8	
Picture	Jpg, png	
Audio	MP3,AAC,WMA, RM, FLAC, Ogg	

5.Precautions for use

1. Relative humidity: 20% ~ 95% .
2. Storage temperature: -20 ~ 60℃
3. Operation temperature: commercial (0 °C ~60 °C)/Extended commercial (-20 °C ~ 8 5°C)
4. Do not squeeze, distort or disassemble the board.
5. Keep the board away from static electricity .
6. Keep the board away from water and other liquid.
7. Clean the board with soft and clean dry cloth when it's dirty.
8. Don't use long connect wires which may affect performance and image quality.