



TCL 505

Bigger Display, Bigger Memory.

6.75"/90Hz High refresh rate display
8GB+8GB RAM expansion
50MP hybrid camera
Stereo Dual Speakers



TCL 505

512GB

DESIGN

Dimensions (HxWxD, mm): 168.29x76.67x8.32mm
Weight: 190g
Side keys: 2 (Volume Key & Power Key)
Colors: Black, Blue

DISPLAY

Size: 6.75 inch NXTVISION display
Resolution: HD+ (720*1600 resolution)
Screen-to-body ratio: VA:TP=90.01% VA:BD=86.27%
Glass type: 2.5D glass
Touch technology: Capacitive
Color gamut: 260 PPI, NTSC 69.3%(Typ.)
Brightness (nits): Min 360nit, TYP 400nit
Anti-fingerprint coating: Yes

BATTERY

Capacity: 5010mAh
Charging Technology: 10W
Charging time (Hours): Around 3h
DOU Value (Hours): 18hours *

PERFORMANCE

OS: Android 14 (1 OS upgrade to Android 15)
Chipset: MTK G36 (MT6765X)
CPU Frequency: 4xA53@ 2.2GHz+4xA53@ 1.6GHz
GPU: IMG GE8320 680MHz

REAR CAMERA

Number of pixels : Dual
50MP Main Camera:
PDAF, sensor size 1/2.55", pixel size 0.7µm, aperture F1.8, field of view 79.4°, 5P lens
2MP Dual Camera:
FF, sensor size 1/5", pixel size 1.75µm, aperture F2.4, field of view 88.8°, 3P lens
Camera Flash: Single tone
Video capture: 1080P @30FPS
Video playback: 1080P @30FPS
Features: Bokeh,HDR,Panorama,AI scene detection,Face detection

FRONT CAMERA

5MP camera:
FF, sensor size 1/5", pixel size 1.12µm, aperture F2.2, field of view 76.8°, 3P lens
Video capture: 1080p@30fps
Video playback: 1080p@30fps
Features: HDR, Face Beauty

MEMORY

RAM size: 16GB (8GB + 8GB RAM expansion)
ROM size: 512GB
Available memory: **(TBD) ***
microSD card: Micro SD, up to 512GB

*Actual internal storage available may depending on pre-installed software.

CONNECTIVITY

Bluetooth version: 5.1
Audio jack: 3.5mm
NFC: Yes

NETWORK

Sim card slots
Dual SIM: 2 Nano SIM + 1 T-Flash card

4G data: Cat 4 DL 150Mbit/s, UL 50Mbit/s
3G data: HSPA+ (42M bit/s DL, 11Mbit/s UL)
2G data: GPRS/EDGE

4G Bands:
B1/3/5/7/8/20/26/28/38/40/41 (2496-2690MHz)

3G Bands:
B1/2/5/8

2G Bands:
850/900/1800/1900

802.11a/b/g/n/ac, 2.4GHz&5GHz, Wi-Fi direct, Wi-Fi display
VoLTE, VoWiFi

AUTHENTICATION

Face Unlock

SENSOR

Location: BDS/GPS/Glonass/Galileo,with A-GPS
Other: Accelerometer (G sensor), Proximity by software solution

AUDIO AND VIDEO

Audio playback format:
AAC, HE-AAC v1, HE-AAC v2, AMR, AWB, MIDI, MP3, OGG
VORBIS, WAV(Alaw/Ulaw), WAV(Raw), FLAC, OPUS
Video playback format:
MPEG2, H.263, MPEG4, H.264, H.265, VP8, VP9
Speaker: 2
Dual-mic Noise cancellation: Default No, but optional
Supported headsets: LRGM
Features: Big Volume

IN THE BOX

Charger, Type C 2.0 Cable, LCD sticker, Quick guide PSI, SIM card pin, RAM expansion label

