

TCL P80 Pro



T852K2

DESIGN

Dimensions (HxWxD, mm):
163.34*77.69*8.26mm
Weight: 192gr
Side keys: Volume key; Power key; NXTPAPER key
Finish: TBD
Colors: Sunlit Gold, Midnight Blue

DISPLAY

Size: 6.83-inch
Resolution: 2772 x 1280 1.5K NXTPAPER
Refresh rate: 120Hz
Screen-to-body ratio: 90.89%
Glass type: 2.5D glass
Aspect ratio: 19.5:9
Technology: Capacitive touchscreen
Contrast ratio: 1000000: 1
Color gamut: 100% DCI-P3
Brightness (nits): 800nits typ(Normal), 1800nits typ(HBM), 3200nits typ(Peak)
Anti-fingerprint coating: Yes

BATTERY

Capacity: 5800mAh
Charger: 45W
Charging time*: **TBD**
DOU Value (Hours)*: **TBD**

*Data comes from internal lab tests. Actual battery life may vary depending on personal usage (network strength, app use, etc.).

PERFORMANCE

OS: Android 16
Chipset: MT6878/TZA (MTK 25M/MediaTek
Dimensity 7400 Elite)
CPU: 4*A78 @ 2.6GHz + 4*A55 @ 2.0GHz
GPU: Mali-G615

REAR CAMERA

50M (1.0um OIS) camera:
Sensor size 1/1.56", pixel size 1.0um, aperture F1.88,
field of view 84°, 6P lens
8MP UW:
Sensor size 1/4.0"**TBD**, pixel size 1.12umTBD ,5P lens
Flicker sensor
Video capture: 4K 30FPS/1080P 60FPS
Video playback: 4K 30FPS/1080P 60FPS
Features: Portrait Mode, Pro Mode, Motion Mode, Pano
Mode, Night Mode, Slow-Motion, Light Trail, Time-Lapse,
Motion Track, Movie Mode, Stage Mode High pixel,
NightMode, High pixel, Macro (**TBD**)
Other features: Torch light

FRONT CAMERA

32MP camera:
FF, sensor size 1/3", pixel size 0.7um, aperture
2.45, field of view 81.1°, 5P lens,
Sensor: GC32E2A
Video capture: 2K 30FPS
Video playback: 2K 30FPS
Features: Face Beautification, HDR (High Dynamic
Range)

MEMORY

RAM size: 8GB+16GB RAM expansion
ROM size: 512GB (UFS2.2)
Available memory: **TBD**
microSD card: N/A

CONNECTIVITY

Bluetooth version: 5.4
Audio jack: Type C
NFC: Yes (NFC compatible with Japan Felica
requirements)

NETWORK

SIM card slot: 2PSIM or 1PSIM+eSIM

5G data:
SA mode: DL 3.27Gbps/UL 1.75Gbps
NSA mode: DL 3.67Gbps/UL 0.84Gbps
4G data: TE DL cat16:1.0Gbps/UL cat18 211Mbps
3G data: HSPA+(DL CAT24:42.2Mbps, UL
CAT7:11.5Mbps)
2G data: GPRS/EDGE

5G Bands (SA):
n1/3/5/7/8/20/26/28/38/40/41/66/77/78
5G Bands (NSA):
n1/3/5/7/8/20/26/28/38/40/41/75/77/78
4G Bands:
B1/2/3/4/5/7/8/12/13/17/20/26/28/32/38
/40/41/42/66
3G Bands: B1/B2/B4/B5/B8
GSM Bands: B2/3/5/8

802.11 a/b/g/n/ac/ax, IR, WiFi Direct, Wi-Fi
Display
VoLTE, VoWiFi, ViLTE

AUTHENTICATION

Face Unlock, Fingerprint (Side Mounted
compatible with under display)

SENSOR

Location: with A-GPS L1, GPS+Galileo
Others : G-Sensor (accelerometer), E-compass, P sensor
(ultrasonic wave sensor), L sensor (light sensor, Support
RGB Sensor), Gyro, Hall Switch, Barometer (N, but
compatible)

AUDIO AND VIDEO

Audio code support:
AAC, HE-AAC v1, HE-AAC v2, AMR, AWB, MIDI,
MP3, OGG VORBIS, WAV(Alaw/Ulaw),
WAV(Raw), FLAC, OPUS
Video code support:
H.263, MPEG4, H.264, H.265, VP8, VP9, AV1
HD Voice: Yes
Speaker: 2
Mic: 2
Supported headsets: Type-C digital headset

OTHERS

IP68, Eco design, CE/GCF/EEI/BT SIG/wifi Alliance
Certification: TÜV Rheinland Low Blue Light (Hardware
Solution),
TÜV Rheinland Circadian Friendly,
TÜV Rheinland Flicker Free

IN THE BOX

(Plastic free packaging)
Standard accessory: TypeC C to C Cable, SIM Card
PIN, Quick Guide & PSI
Paper Screen Sticker, standard PC case
Optional accessory: Phone case, Type c digital
headphone, 45W Charger

AI FEATURES

AI COPY& GO; AI SMARTTRANSLATOR
AI ENHANCED READING; AI CREATIVE WRITING; AI
VOICE MEMO2.0
Gemini & Circle to Search(Powered by google)