

TCL P80



T853K

DESIGN

Dimensions (HxWxD, mm): 163.34*77.69*7.5 mm
Weight: 178g
Side keys: Volume key; Power key
Colors: Midnight Blue, Sunlit Gold

DISPLAY

Size: 6.83' AMOLED
Resolution: 1.5K, 2772*1280
Refresh rate: 120Hz
Screen-to-body ratio: VA/BODY: 90.96%, VA/TP: 94.87%
PPI: 447
Display ratio: 19.5:9
Glass type: 2.5D GG7i glass
Technology: Capacitive touchscreen
Contrast ratio: 1000000:1
Color gamut: 100% DCI-P3
Brightness (nits): 800nits typ(Normal), 1800nits typ(HBM), 3200nits typ(Peak)
Border/Bezel Size: (L/R/U/D) 1.38/1.38/1.48/2.02
Anti-fingerprint coating: Yes

BATTERY

Capacity: 5000mAh
Charger: 45W
Charging time*: 58min
DOU Value (Hours)*: 18.21h

PERFORMANCE

OS: Android 16
Chipset: MediaTek Dimensity 7300 Elite
CPU: 4*A78 @ 2.5GHz + 4*A55 @ 2.0GHz
GPU: Mali-G615

MEMORY

RAM size: 8GB+16GB RAM expansion (LPDDR4X)
ROM size: 128GB (UFS2.2)
microSD card: N

REAR CAMERA

50M (1.0μm OIS) camera:
Sensor size 1/1.56", sensor pixel size 1.0μm, aperture F1.88, field of view 84°, 6P lens
8MP UW+Flicker (2in1):
Sensor size 1/4", sensor pixel size 1.12μm, aperture F2.2, field of view 112° (108° post-crop), 5P lens
Video: 4k: 30fps, 1080p: 60fps/30fps, 720p: 60fps/30fps
Features: Portrait Mode, Pro Mode, Motion Mode, Pano Mode, Night Mode, Slow-Motion, Light Trace, Time-Lapse, Motion Track, Movie Mode, High pixel, Macro
Other features: Torch light

FRONT CAMERA

32MP camera:
FF, sensor size 1/3", pixel size 0.7μm, aperture F2.45, field of view 81.1°, 5P lens
Video: 2k: 30fps, 1080p: 60fps/30fps, 720p: 60fps/30fps
Features: Face beauty, HDR

CONNECTIVITY

Bluetooth version: 5.4
Audio jack: Type C (Only digital supported)
NFC: Yes

NETWORK

SIM card slot: Dual Nano SIM 2PSIM or 1PSIM (support 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:
B1/2/3/4/5/7/8/12/13/17/20/26/28/32/38/39/40/41/42/66
3G Bands: B1/B2/B4/B5/B8
GSM Bands: B2/3/5/8

802.11 a/b/g/n/ac/ax, 2.4GHz&5GHz, IR, WiFi Direct, Wi-Fi Display
VoLTE, VoWiFi, VILTE

AI Features*

AI COPY & GO
AI SMART TRANSLATOR
AI ENHANCED READING
Google Gemini & Circle to Search
AI CREATIVE WRITING
SMART VOICE MEMO 2.0

AUTHENTICATION

Face Unlock, Fingerprint (Under display)

SENSOR

Location: A-GPS L1, GPS+Galileo
Others: G-Sensor (accelerometer), E-compass, Proximity sensor (ultrasonic wave sensor), Light sensor (L sensor), Gyro

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, Dual-mic noise cancellation
Supported headsets: Type-C digital headset
Features: 3D Surround, powered by DTS

OTHERS

IP68, Eco design, CE/GCF/EEI/BT SIG/wifi Alliance, 60-month Smooth Performance*, Enhanced Drop Resistance (MIL-STD-810H Tested)

IN THE BOX

Standard accessory: Type C C to C Cable, SIM Card PIN, Quick Guide & PSI
Paper Screen Sticker, PC Case
Optional accessory: Charger (45W)

*Data comes from internal lab tests. Actual battery life may vary depending on personal usage (network strength, app use, etc).
**5-year smooth performance* is based on TCL internal lab tests and does not guarantee lifetime lag-free performance. Actual performance may vary.
*Some features described may not be available in all regions and will be updated as software updates. Availability may vary by region and model.
*Durability was tested under controlled laboratory conditions in accordance with MIL-STD-810H standards. Actual performance may vary depending on environmental conditions and usage patterns.