

PTC760

Multi-mode Advanced Radio



Broadband and Narrowband Converged

The Hytera PTC760 Multi-mode Advanced Radio is the revolutionary TETRA LTE hybrid device offering the ideal platform for critical voice and broadband data services.

Situational Awareness

Advanced audio technology supported by in-built GPS positioning and front and rear cameras supporting 4K HD video for information gathering.

Rugged and Reliable

Dust and waterproof, rated IP67, with scratch and shatter-resistant Gorilla® Glass 3.

Rapid Charging

The latest smart battery technology delivers fast charge, 3 times faster than regular batteries. With 80% of the battery capacity charged within 30 minutes.

SmartKey

Allows the user to quickly toggle between widgets and applications on the device screen.

Technical Data PTC760

Standard Functions and Frequency Ranges	
TETRA	350 – 470 MHz
LTE	3GPP LTE, FDD-LTE: B1/B2/B3/B4/B5/ B7/B8/B20/B26/B28, TDD-LTE: B38/ B39/B40/B41
CDMA	CDMA 1 x RTT BC0 CDMA2000 1 x EV-DO BC0
GSM	850 / 900 / 1800 / 1900 MHz
Wi-Fi	802.11 b/g/n, 2.4 GHz
NFC	13.56 MHz
Dual BT	V4.2 LE + EDR
Positioning System	GPS, BDS, GLONASS
Sensors	Proximity Sensor, Ambient Light Sensor, 6-axis E-Compass, Barometer, Gyroscope, Accelerometer

General Specifications	
Dimensions (H x W x D)	139.5 x 68 x 25.3 mm
Weight (with antenna & battery)	about 378 g
CPU	Qualcomm 8-core, 2.0 GHz
Memory (Broadband)	RAM: 3 GB / ROM: 32 GB eMMC Expandable to 128 GB with MicroSD card
Memory (Narrowband)	Expandable to 16 GB with MicroSD card
Ports	20 Pin Heavy duty accessory port
Top Display	1.0 inch, 128 x 88 pixels
Main Display	4.0", 800 x 480 pixels, Capacitive touch screen, Gloves Compatible
Front Camera	13 MP, 1080P HD, up to 30 frames per second (fps)
Rear Camera	13 MP, 4K HD video
Operating Voltage	7.6 V (rated)

Battery	
Standard battery	2900 mAh (Lithium-polymer battery)
Optional battery	4000 mAh (Lithium-polymer battery)
Battery life	Standard Battery: 14 h (12 h voice (5:5:90) + 2 h video) Optional Battery: 20 h (18 h voice (5:5:90) + 2 h video)

Transmitter	
Channel spacing	25 kHz
Transmitting power	1 W (Class 4) 1,8 W (Class 3L) Open Loop Power Control (OLPC)
RX sensitivity	Static ≤ -116 dBm (typ -117 dBm) Dynamic ≤ 106 dBm (typ -109 dBm)
Intermodulation	≥ 62 dB
Blocking	50 kHz - 100 kHz ≥ 69 dBm 100 kHz - 200 kHz ≥ 74 dBm 200 kHz - 500 kHz ≥ 79 dBm >500 kHz ≥ 84 dBm
Suppression of spurious response	≥ 64 dB
Frequency stability	± 0.5 ppm
Antenna impedance	50 Ω
Audio power output	2 W (rated)
Audio distortion	≤ 3%
Microphone	NRR: 30 dB (static), 20 dB (non static) AEC: > 60 dB

Environmental Conditions	
Protection against dust & moisture	IEC 60529, IP67
Humidity	≤ +65 °C, 95% RH per MIL-STD-810
Shock and vibration resistance	MIL-STD-810 G
Operating temperature range	-20 °C to +60 °C
Storage temperature range	-30 °C to +80 °C
Charging temperature range	+0 °C to +40 °C

Supported Formats	
Supported video formats	3GPP (.3gp), MPEG-4 (.mp4), Quick- Time (.mov), WEBM (.webm), Windows Media (.asf, .wmv), RealMedia (.rmvb, .rm), MPEG-PS (.mpg, .mpeg), MPEG- TS (.ts), AVI (.avi), Matroska (.mkv)
Supported image formats	JPEG (.jpg), GIF (.gif), PNG (.png), BMP (.bmp)
Supported audio formats	MP3 (.mp3), WAV (.wav), 3GPP (.3gp), MPEG-4 (.mp4, .m4a), ATDS raw AAC (.aac), MPEG-TS (.ts), FLAC (.flac), MIDI (.midi, .xmf, .mxmf), RTTTL/RTX (.rtttl, .rtx), OTA (.ota), iMelody (.imy), Ogg (.ogg), Matroska (.mka), QCELP (.qcp), RealMedia (.ra), Windows Media (.wma), AC3 (.ac3)

All technical information was determined at the factory and in accordance with the corresponding standards. Subject to change on the basis of continuous development.



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Encryption features are optional and have to be configured separately; they are also subject to German and European export regulations.

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