

The Hytera AP585 series business radio is the perfect choice for instant communication. With a 3W speaker, the compact and light handset can deliver loud and clear audio that allows you to hear and be heard in background noise. It has an incredibly long 12-hour battery life in its most minimal form. Type-C USB charge plug allows users to charge the radio with a power bank anywhere. With the extended range and a bunch of productivity and efficiency increasing features, the AP585 will ensure you stay connected and productive.



Specifications

General	
Frequency Range	400-470MHz;136-174MHz
Channel Capacity	32
Zone capacity	2
Channels per zone	16
Channel spacing	12.5kHz/20kHz/25kHz
Operating voltage	3.7V (rated)
Battery	4000mAh 3.7V
Battery Life (5/5/90 Duty Cycle, High TX Power)	17h
Frequency stability	± 0.5 ppm
Antenna impedance	50 Ω
Dimensions (H × W × D) (without antenna)	105x55x29.5mm
Weight (with antenna and standard battery)	approx. 200 g
BT (optional)	BT 5.0 BLE+EDR

Environmental	
Operating temperature range	-30°C to +60°C (Battery requires -20 °C minimal operating temperature)
Storage temperature range	-40°C to +85°C
ESD	IEC 61000-4-2 (Level 4) ±8kV (contact); ±15kV (air)
Dust and Water Intrusion	IEC60529-IP54
Humidity	MIL-STD-810 G standard
Shock and Vibration	MIL-STD-810 G standard

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

Receiver	
Sensitivity	0.18µV (12dB SINAD)
Adjacent Channel Selectivity	TIA-603: 60dB@12.5kHz; 70dB@20/25kHz ETSI: 60dB@12.5kHz; 70dB@20/25kHz
Intermodulation	TIA-603: 70dB@12.5/20/25kHz ETSI: 65dB@12.5/20/25kHz
Spurious Response Rejection	TIA-603: 70dB@12.5/20/25kHz ETSI: 70dB@12.5/20/25kHz
Blocking	TIA-603: 80dB; ETSI: 84dB
Hum and Noise	40dB@12.5kHz; 43dB@20kHz; 45dB@25kHz
Rated Audio Power Output	0.5W
Nominal audio distortion	≤ 3%
Audio sensitivity	+ 1 dB at - 3dB
Conducted spurious emission	< -57dBm

Transmitter	
RF Power Output	VHF: 4-5W / 1W UHF: 3-4W / 1W
FM Modulation	11K0F3E@12.5kHz; 14K0F3E@20kHz; 16K0F3E@25kHz
Conducted/Radiated Emission	-36dBm < 1GHz; -30dBm > 1GHz
Modulation Limiting	±2.5kHz@12.5kHz; ±4.0kHz@20kHz; ±5.0kHz@25kHz
FM Hum&Noise	40dB@12.5kHz; 43dB@20kHz; 45dB@25kHz
Adjacent Channel Power	60dB@12.5kHz; 70dB@20/25kHz
Audio Response	+ 1dB at - 3dB
Audio Distortion	≤ 3%

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