

General	
Explosion-proof Levels	CQST: Ex ib IIB T3 Gb / Ex ibD 21 T150°C
Frequency	UHF1: 400-470MHz
Channel Capacity	1024
Zone Capacity	64 (Maximum 32 groups per area)
Channel Spacing	12.5kHz/20KHz/25KHz
Frequency Stability	±0.5ppm
Operating Voltage	7.4V
Battery Capacity	2200mAh (Standard)
Battery Life	Analog: 14 hrs Digital: 18 hrs (5:5:90 duty cycle, highpower Tx)
Size (H×W×D)	126*54.5*32mm (without Antenna)
Weight	About 290g (with the Antenna and Battery)
Screen	2.0" Transflective LCD, 240×320, 6 Lines
Vocoder	AMBE++Vocoder
VOX	Support
Man Down	Support
Location	Beidou/GPS
Encryption	Support basic software encryption, optionally high - level software encryption or TF card hardware encryption

Environmental	
Operating Temperature	-20°C ~ +60°C
Storage Temperature	-40°C ~ +85°C
ESD	IEC 61000-4-2 (level 4) ±8kV (Contact) ±15kV (Air)
Dust and Water Resistance	IP68
Reliability	GJB 150A-2009 & MIL-STD-810 G

GPS	
Accuracy specs are for long-term tracking(95th percentile values > 5 satellites visible at nominal - 130 dBm signal strength)	
TTFF (Time To First Fix) - Cold Start	<60 s
TTFF (Time To First Fix) - Hot Start	<10 s
Horizontal Accuracy	<10 m

Receiver	
Sensitivity (Analog)	0.18uV(12dB SINAD)
Sensitivity (Digital)	0.18uV (5% BER)
	60 dB@12.5KHz/70 dB@20/25KHz (TIA603A) -1T
Adjacent Channel Selectivity	45dB@12.5KHz /70 dB@20/25KHz (TIA603D) -2T
	60dB@12.5KHz /70 dB@20/25KHz (ETSI)
Intermodulation	70 dB (TIA603D)
	65 dB (ETSI)
Spurious Rejection	70 dB (TIA603D)
	70 dB (ETSI)
Blocking or Desensitization	80dB(TIA603D)
	84dB(ETSI)
Co-channel Rejection	-12~0 dB @12.5KHz/-8~0 dB @20/25KHz
Hum and Noise	-40 dB@12.5KHz /-43 dB@20KHz /-45 dB@25KHz
Rated Audio Power	0.5W
Max Audio Power	2.0W
Audio Distortion @ Rated Audio	≤3% (Typical)
Audio Response	+1~-3dB (TIA603D)
Conducted Spurious Emission	-57 dBm (TIA603D)

Transmitter	
Low Power Output	1 W
High Power Output	≤ 3.5W (UHF1)
FM Modulation	12.5KHz: 11K0F3E / 20KHz: 14K0F3E / 25KHz: 16K0F3E
	12.5KHz Data Only: 7K60F1D&7K60FXD
4FSK Digital Modulation	12.5KHz Voice Only: 7K60F1E&7K60FXE
	12.5KHz Voice And Data: 7K60F1W
Conducted / Radiated Emission	-36dBm ≤1GHz ; -30dBm >1GHz
Modulation Limiting	±2.5KHz @12.5KHz / ±4KHz @20KHz / ±5.0KHz @25KHz
FM Hum and Noise	-40 dB@12.5KHz /-43dB@20KHz /-45 dB@25KHz
Adjacent Channel Power	60 dB@12.5KHz /70 dB @20/25KHz
Audio Distortion	≤3% (Typical)
Audio Response	+1~-3dB(TIA603D)

Remarks: The above specifications are in accordance with the applicable standard test, due to the continuous development of technology, in the future data may change without notice.

Explosion-proof Digital Radio

Safer and Lighter



Features



Clear and Loud

2W high-power loudspeaker, combined with excellent sound chamber and noise-reduction design, brings a clear and loud voice with no fear of noisy environments.



High Sensitivity, Longer Communication Distance

The Rx sensitivity reaches 0.18uV, providing longer communication distance and ensuring efficient transmission of every call and message over a longer range.



IP68 Protection, Military Standard Quality

With IP68-level protection, it is not afraid of rain, water immersion and dust. It has passed the certification of Standard MIL-STD-810G.



Digital and Analog Compatible, Extended ECS

It supports DMR digital and compatible with analog. Supports digital DMO/Repeater dual time slots and can be expanded to ECS. Automatic cross-station roaming provides uninterrupted call.



High-capacity, Long-lasting Battery Life

Equipped with a 2200mAh explosion-proof high-capacity battery, can work for 18 hours under a 5-5-90 duty cycle in digital mode. A long battery life facilitates user's focus on essential job.



Rich Configuration, Complete Services

Support VOX to free your hands, making call more convenient, also support coordination with the dispatching system, achieving more efficient command and dispatch.



Multiple Security Protection

It provides functions such as lone worker, emergency alarm, and man-down alarm to protect users' operation security. Combining with GPS/BDS positioning system, it provides solid guarantee for users' safe operation.



IIB T3 Standard Explosion-proof

Gas and dust double explosion-proof, it meets Ex ib IIB T3 Gb/Ex ibD 21 T150°C explosion-proof standard, providing more secure communication guarantee.



Application



Accessories

Standard Accessories



Desktop Charger



2200mAh Li-ion Battery



Power Adapter



Antenna



Belt Clip

Optional Accessories



8-way Charger



Explosion-proof Earphone



Laryngeal Explosion-proof Earphone



Half-bone Explosion-proof Earphone



Bone Conductive Explosion-proof Earphone



Explosion-proof Shoulder Microphone



Programming Cable

After-sales Services

With abundant technologies and a highly specialized technical team, Caltta is able to provide users with high-quality products, tailored solutions, and perfect after-sales services. Each product provided by Caltta has undergone strict factory tests, can meet communication requirements in harsh and dangerous environments, and provide users with secure, reliable, and efficient communication. Meanwhile, Caltta also provides users with professional pre-sales and after-sales technical support, comprehensive technical documentation and training services, expert remote telephone support, local after-sales service, active software maintenance, software updates, etc. All-round services bring a worry-free user experience all the way.