

C1-DM

Enhanced Conventional Mobile Radio



- GPS/SMS
- Remote Kill/Revive
- Secure Communications
- Radio priorty-Based Interruption
- Can be updated to Trunking version





OVERVIEW

C1 – DM comes with a large color dispaly which delivers good visibility even under strong light environments. Also, the five programmable buttons allow the user to access any features he needs and thus greatly facilitate radio communications. Besides a full set of digital features, the integrated remote kill/stun/revive features bring unprecedented efficiency to teamwork and radio management.

HIGHLIGHTS AND BENEFITS

Radio priorty-Based Interruption

This function enables a radio with higher level to interrupt communications between radios with lower levels, giving higher priority to raadios with higher levels. This means better dispatching efficiency.

GPS

C1 – DM can send location information to the command center and the commander can view GPS information in realtime, which increases commanding efficiency and personnel safety.

Remote Kill/Revive

Such functions greatly facilitate dispatchiing work and can be especially useful if you want to kill a lost radio.

Secure Communications

Use digital encryption to code and decode all voice calls, and support both ARC4 and AES256 encrytpion for secure communications.

SMS

C1 – DM supports messages with up to 140 chara cters when discreet communications are needed.



SPECIFICATION

General		
Type of Operation		Simplex/Semi-duplex
Frequency Range		146-174 MHz
Channel Spacing		12.5KHz/25KHz
Emission		11KOF3E (12.5KHz) and 4FSK
12.5 kHz Data		7K60F1D and 7K60FXD
12.5 kHz Voice		7K60F1E and 7K60FXE
Combination of 12.5 kHz Voice and Data		7K60F1W
Frequency Spread		28 MHz
Type of modulation		Digital DMR TDMA based open standard specifications platform which must have capability of backward compatibility with Analog Radios
Frequency Stability		±0.5 PPM
Operating Temperature Range		(-) 30 to 65 Degree Centigrade
Speaker Impedance		4/8/16 Ω
No. of Channels		1024
Transmitter		
RF Power Output		High Power:50W / Middle Power:25W/Low Power:10W
Frequency deviation		± 2.5 kHz (N type)
Modulation Sensitivity		1 to 10 mV at 1 KHz at mic. Input for (+/-) 1.5 KHz (for 12.5 KHz channel Spacing) standard deviation
Modulation Distortion		Better than 3%
Modulation Fidelity		(+) 1, (-) 3dB of 6dB/Octave Pre-emphasis characteristic from 350Hz to 2700Hz with 1 KHz as reference
Spurious and Harmonics		Better than 60dB
Output impedance		50 Ω
Receiver		
Senstivity		Better than 0.25 μV for 12dB SINAD
Selectvity Better than		60 dB
Image and Spurious rejection		70dB
Audio Output		Better than 3W with less than 3% distortion at 1kHz ref. measured at specified output.
Squelch Sensitivity		Better than 0.25 μV
AF Response		Within +1, -3 dB of 7dB/ Octave Pre-emphasis charecteristic from 350 Hz with 1 KHz as reference
ENVIRONMENTAL AN	ND CLIMATIC REQUIREME	NT:
Parameter	Reference	Severity required
Low pressure test	MIL STD 810 G Pro I	15000 ft./57 kPa 1 Hr.
High temperature	MIL STD 810 G Pro I MIL STD 810 G Pro II	7*(35° C-71° C-35° C of 24 Hrs) 7 cycles comprising one cycle as (32° C-49° C-32° C of 24 Hrs)
Low temperature	MIL STD 810 G Pro I MIL STD 810 G Pro II	(-57° C*24Hrs.) (-33° C*4Hrs.)
Temperature shock	MIL STD 810 G Pro I	(-30° C*2Hrs, 61° C*2Hrs, -30° C* 2Hrs) *4
Rain (blowing rain) test	MIL STD 810 G Pro I	(Drop size 0.5 to 4.5 mm@4"/Hour, Wind Velocity 40 mph)* 6 sides/faces 30 Min. each side/face covering all axes
	MIL STD 810 G Pro I	15*(34C, RH 65%, RH 85 %,71 C, RH 20 % total 24 hrs.) Deionised water of 6.5–7.5 PH used
Humidity test		48Hrs (Salt Soln 6.5-7.2 Ph, 5% Conc @1-2 ml/Hour)
•	MIL STD 810 G Pro I	
Salt fog test	MIL STD 810 G Pro I MIL STD 810 G Pro I	
Salt fog test Sand dust blowing	MIL STD 810 G Pro I	2*(10gm/m3 air velocity 8.9 m/s*6 Hrs, air velocity 1.5 m/s*1 Hr)
Salt fog test		

Features

Main Features

- Digital/analog Dual Modes
- Pseudo Trunk
- Adjustable Power Levels
- GPS+Beidou(optional)
- Bluetooth 4.0(optional)



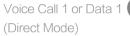
Digital Features

- Private Call
- Group Call
- All Call
- Radio Check
- Remote Kill/Revive
- Remote Monitor
- Emergency Alarm
- Digital Encryption
- SMS
- Roaming

Analog Features

- CTCSS/DCS
- Squelch Levels
- Busy Channel Lockout
- Narrow/Wide Band

DMO True 2-Slot







Voice Call 2 or Data 2 (Direct Mode)

STANDARD ACCESSORIES













OPTIONAL ACCESSORIES















ISO9001 Certified



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