



C1-DM

Enhanced Conventional Mobile Radio

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

Micromap
Electronic Systems Pvt.Ltd.



CONVEY

OVERVIEW

C1 - DM comes with a large color display 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 priority-Based Interruption

This function enables a radio with higher level to interrupt communications between radios with lower levels, giving higher priority to radios 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.

Secure Communications

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

SMS

C1 - DM supports messages with up to 140 characters when discreet communications are needed.

Remote Kill/Revive

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



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		
Sensitivity	Better than 0.25 μV for 12dB SINAD	
Selectivity 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 characteristic from 350 Hz with 1 KHz as reference	
ENVIRONMENTAL AND CLIMATIC REQUIREMENT:		
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
Humidity test	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
Salt fog test	MIL STD 810 G Pro I	48Hrs (Salt Soln 6.5-7.2 Ph, 5% Conc @1-2 ml/Hour)
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)
Vibration test	MIL STD 810 G Pro I	Freq 10-500 Hz, Displ Amplitude 5 mm XYZ Axis, 1 Hr /Axis
Shock test	MIL STD 810 G Pro I	40g 15-23 ms 6 shock /Axis
IP	IP 54	IP 54 for 25 W radio

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 1 or Data 1
(Direct Mode)



Voice Call 2 or Data 2
(Direct Mode)



STANDARD ACCESSORIES

DC Power Supply	Remote Speaker	Hang Buckle	Platform Support	Fuse

OPTIONAL ACCESSORIES

Program cable	Vehicle Antenna	Power Supply



ISO9001 Certified

TESTED BY

CONVEY

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