

YANTON[®]
DIGITAL TRANSCEIVER



DIGITAL / ANALOG
DUAL-MODE TRANSCEIVER

DM-900

- Built for dual-mode (Digital+ Analog)
- 32 Channels
- Private call, group call, all call and emergency call
- Digital encryption
- Vocoder AMBE3000
- Various Analog Signaling Types (DTMF, 2 Tone)
- TDMA Technology

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GENERAL			
Frequency Range	VHF: 136-174MHz / UHF: 350-390MHz; 400-470MHz; 450-520MHz		
Channel Capacity	32	Channel Spacing	12.5kHz / 25kHz/ 20kHz
Frequency Stability	2.5PPM	Operating Temperature	-25°C~+55°C
Antenna Impedance	50Ω	Operating Voltage	7.4V
Dimension (H×W×D)	126×53×34mm	Weight	300g (with antenna & battery)
Zone Capacity	16 (each with a maximum of 16 channel)		
Battery life	(5-5-90Duty Cycle, High TX power)High-capacity 2800mah Li-ion Battery Analog: above 10.5 Hour / Digital: above 14 Hours		
LCD Display	1.8TFT		
TRANSMITTER			
RF Power (H/L)	UHF: 4W/1W; VHF: 5W/1W		
Modulation Type	16kΦF3E / 8kΦF3E	Modulation Limiting	5KHz / 4KHz / 2.5KHz
EM Distortion	≤5%	Residual FM	-45dB / -40dB
Adjacent Channel Power	-70dB / -60dB	Spurious and Harmonics	≤-36dBm
Audio Distortion	≤3%	Conducted/Radiated Emission	-36dBm<1GHz/30dBm>1GHz 1GHz
Digital Vocoder type	AMBE3000	Digital	ETSI-TS102 361-1.-2.-3
FM Modulation	11KΦF3E@12.5KHz/14KΦF3E@20KHz/16KΦF3E@25KHz		
4FSK Digital Modulation	12.5KHz Data Only:7K60FXD/12.5KHz Data & voice:7K60FXW		
FM noise	40dB@12.5KHz/43dB@20KHz/45dB@25KHz		
RECEIVER			
Sensitivity(Analog)	0.22uV / 0.25uV	Adjacent Channel Selectivity	70dB / 60dB
Sensitivity(Digital)	0.22uV/BER5%	Rated Audio Distortion	≤3%
Intermediation Reject Ratio	65dB	Spurious Response Reject Ratio	70dB
S / N	45dB /40dB	Rated Audio Power Output	1.5W
Audio Response	+1~ -3dB	Conducted Spurious Emission	< -57dBm
Intermodulation TIA-603 ETSI	≥70Db@12.5/20/25KHz		
Selectivity TIA-603 ETSI	≥60Db@12.5KHz/70Db@20&25KHz		

Notice: Saving your presence, no additional notice will be sent if specification changes because of technology-improving.

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