

# YANTON®

DIGITAL / ANALOG COMBINED  
TRANSCEIVER

## DM-830

### MAIN FUNCTION:

- 64 zone 1024 contacts
- Encryption function
- Single call, group call and all call
- Remote kill/ stun and activate
- Man Down
- SMS message
- Firmware upgradeable
- GPS function (optional)



Protocol  
ETSI TS 102, 361-1,-2,-3

**DIGITAL / ANALOG  
COMBINED**



**DMR**  
DIGITAL MOBILE RADIO ASSOCIATION

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### SPECIFICATION

#### GENERAL

Frequency Range	VHF:136-174MHZ UHF:400-480MHZ
Channel	1000 Channels
Channel spacing	12.5KHZ
Operating voltage	7.4V
Battery type	Li-ion
Operating temperature	-30°C~+60°C
Store temperature	-40°C~+85°C
Antenna Impedance	50Ω
Audio output power	≤1000mW@16Ω
Battery capacity	1800Mah standard Li-ion battery
Dimension(H*W*D)	98*58*35mm
Weight	194g

#### TRANSMITTER

Output power	High: ≤5W(HI) Low: ≤1W(Low)
Frequency stability	+/-1.0ppm
Adjacent channel Power	≤-60dB
Free time slot power	TDMA: ≤-57dBm
Hum and Noise	-40dB @ 12.5KHZ
Spurious Radiation	Antenna:9KHz-1GHz ≤-36dBm / 1GHz-12.75GHz ≤-30dBm
FM modulation mode	12.5KHz: 11K0F3E
4FSK digital mode	12.5KHz (data only): 7K60FXD 12.5KHz (data+voice): 7K60FXE
Modulation Maximum Deviation	2.5KHz@12.5KHz
Nonactive slot power	-57dBm
Digital protocol	ETSI TS 102 361-1,-2,-3
Vocoder type	AMBE+2TM
Audio response	+1dB~-3dB
Modulation BER(Bit error rate)	≤5%

#### RECEIVER

Analog sensibility	0.35uV/-116dBm(20dB SINAD) / 0.22 uV/-120dBm (Type)
Digital sensibility	0.3 uV/-117.4dBm (BER 5%) / 0.7uV/-110dBm(BER 1%)
Co-channel Rejection	≥-12dB
Spurious response	TIA603C: 75dB ETSI: 70dB
Adjacent channel selectivity	TIA603C: 65dB ETSI: 60dB
Rated audio power	1W
Audio response	=1dB~-3dB
Rated audio distortion	3%(Type)
Spurious radiation	Antenna:9KHz-1GHz ≤-57dBm / 1GHz-12.75GHz ≤-47dBm

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