

General Specifications:

Frequency	350-400MHz, 400-470MHz, 450-520MHz
Channel	99
Channel Spacing	25 kHz/12.5 kHz
Voltage Requirements	100-264VAC 50/60Hz
Antenna Port Spurious Emission 9KHz~1GHz:	<-36dBm, TX Mode <-57dBm, standby mode
1GHz~12.75GHz:	<-30dBm, TX Mode <-47dBm, standby mode
Case Port Spurious Emission 9KHz~1GHz:	<-36dBm, TX Mode <-57dBm, standby mode
1GHz~12.75GHz:	<-30dBm, TX Mode <-47dBm, standby mode
Antenna Impedance	50Ω
Speaker Impedance	4Ω *
Operating Temperature Range	-10 C~+55 C
Size (L*W*H)	482mm X 440mm X 89mm
Weight	≤15KG

Safety Specifications:

Insulation Resistance	≥100MΩ (Testing Voltage DC500V), Insulation Resistance in Hot flashes Environment: ≥2MΩ
Dielectric Strength	Withstanding Alternating Voltage 1000V (Leakage Current: 5mA), 1 min, NO Breakdown Flashover and Corona

Receiver:

Digital Sensitivity (BER5%)	<-118dBm
Adjacent Channel Selectivity	≥65dB
Intermodulation Disturbance Rejection	≥70dB
Blocking	≥90dB
Audio output power	3.0W

Transmitter:

Frequency Stability	≤1.5 ppm
Transmitting Power	25W/50W
Adjacent Channel Power	±12.5kHz: <-60 dB, ±25kHz: <-70 dB
Transient Switchover Adjacent Channel Power	±12.5kHz: <-50 dB, ±25kHz: <-60 dB
Modulation	4FSK
4FSK Digital Modulation	Date 7K60FXD, Date plus voice 7K60FXW
Digital Speech Encoder	AMBE++
Transmitting Bit Error Rate	≤1.5%

• All specifications are subject to change without notice due to continuous development.

Standard Accessories



programming cable



power cord



duplexer install kit



fuse

Optional Accessories



microphone

ABELL[®]
DMR Solution Specialist

DMR

R-80 Digital Repeater



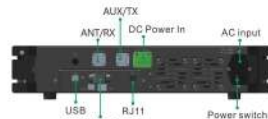
- ▶ Modular design, high tier RF parameters
- ▶ Duplexer built-in
- ▶ Maximum output power 50W
- ▶ 2U slim size
- ▶ IP network via WAN (Optional)
- ▶ Interoperability with PoC (Optional)



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Dealer Area



Features

International standards:

Tier-2 Standard of ETSI TS102-361
TIA/EIA-603C and MIL-STD-810 Standard

50W output power:

Maximal power 50W, increases the communication distance and reliability. Unaffected sensitivity even under transmitting mode with full power.

Versatile modes:

Base station mode and dispatcher mode available.

Optional versions

Multi-sites network:

Via optional board NL002 installed, multi-sites IP network by WAN can be built for coverage extension.

Remote monitor & configuration:

Self-diagnostic, Remote monitor and Network management (Monitor system software needed)

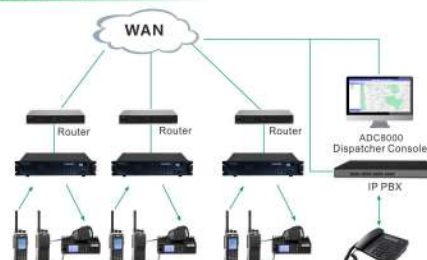
PABX/ PSTN Interoperability:

Communication between radios and cable telephone (PABX/PSTN) and mobile phones.

PoC Interoperability:

Via optional board installed, connect with PoC devices wirelessly (Extend to support the wireless IP network)

IP Network Diagram



ADR8000 diagnosis and control software, supporting fault diagnosis and fault alarm functions for the interconnected repeaters.



The ADC8000 system has more powerful dispatching functions (recording of the whole network...) GIS data service (GPS/Beidou positioning and track playback...) Diagnosis and control functions can set user priority, emergency call, group call, all call, forced insertion and forced removal, Functions such as dynamic reorganization, the system can perform authentication and remote kill to the terminal.

