

This is an economical-grade digital repeater adopting a 1U chassis design. It supports both digital and analogue modes. With optional IP interconnection networking capability, it enables voice and data communication across extensive coverage areas.。



picture for reference only, actual according to order

- Analogue- digital Compatible, On- demand Mode Switching It supports analogue and digital repeater modes, which can be configured through programming software.
- · Leading- edge TDMA Dual- timeslot Technology Built upon advanced Time- Division Multiple Access (TDMA) technology, it doubles spectrum utilization efficiency and user capacity. The dual- timeslot digital voice relay provides two- channel calls and reduces hardware costs.
- · Massive Channel Capacity It supports the preset storage of up to 640 channels.
- · IP Interconnection Mode (Optional) Repeaters can be interconnected via IP ports to realize long- range voice and- data communication over wide- scale zones.
- · Powerful Accessory Expansion Capacity An RJ45 Ethernet interface for secondary development is equipped. It complies with the Jintong protocol for customized dispatching systems.
- · Reliable Forwarding for Voice and Data Services It supports service forwarding including individual call, group call, all- call, short- message service, call alert, emergency alarm, emergency call, access restriction by ID and access restriction by colour- code. Remote stun, wake- up and remote kill functions are available under IP- interconnected and trunking modes.
- · Remote Diagnosis (Optional) With Internet access via the IP port, the repeater status can be remotely monitored, diagnosed and controlled, which improves system communication performance and maintenance- side efficiency.

- Excellent Heat Dissipation Performance Designed with an intelligent PWM temperature- controlled cooling fan, the unit guarantees stable long- time operation under 100% full- power working condition.
- · User- Friendly Management Software The management software enables remote control and diagnosis of the repeater, alongside abundant dispatching functions.
- · Network- based Firmware Upgrade Connect the repeater to a computer over the network to complete firmware upgrades. Operating parameters such as frequencies and functional configurations can also be adjusted for convenient equipment maintenance.

Specification

Frequency	VHF: 136-174 MHz UHF1: 350-400 MHz UHF2: 400-470 MHz
Transmission current	<13A(50W VHF)
Standby current	<800mA
Receive current	<1900mA
channel capacity	640
Coverage capacity	32(Maximum 32 channels per group)
channel spacing	12.5kHz/25kHz
operating mode	Digital / Analog dual- mode
weight	8.5kg
Dimenison (L*W*H)	485mm*405mm*44.5mm
Operation temperature	-30℃ ~+60℃
Voltage	AC 100—250V 50/60Hz; DC-13.5V (interface for DC charging and backup)
Storage temperature	-40℃ ~+85℃
ESD- immunity level	IEC 61000-4-2 (level 4)
maximum operating	100%
Receiver section	
frequency stability	±1.5ppm
Analogue Sensitivity	0.3μV(12dB SINAD) 0.22μV(typ.) (12dB SINAD) 0.4μV(20dB SINAD)
Digital Receive Sensitivity	0.28μV(3%BER@12.5kHz) 0.3μV (3%BER@6.25kHz)
PIM	ETSI: 70dB TIA603: 75dB

Adjacent-channel Selectivity	ETSI : -60dB @12.5kHz , -70dB @20kHz /25kHz TIA603 : -60dB @12.5kHz , -70dB @20kHz /25kHz
Co- channel Rejection	0~-12dB @12.5kHz,0~-8dB @20kHz/25kHz
Spurious Rejection	TIA603 : -70dB ETSI : 70dB
Conducted Emission	- 57dBm
Blocking	TIA603 : 90dB ETSI: 84dB
Rated Audio Distortion	≤5%@2.0W / 8Ω
Audio Frequency Response	300Hz~3kHz, +1/-3dB
Transmitter Section	
Frequency Stability	±1.5ppm
RF Output Power	50W (VHF) /40W (UHF)
Transmit audio signal- to- noise ratio	-40dB @12.5kHz , -45dB @20kHz/25kHz
Conducted Spurious Emissions (CSE)	-36dBm@<1GHz , -30dBm@>1GHz
Adjacent- Channel Power	-60dB @12.5kHz , -70dB @25kHz
FM Modulation	16K0F3E @25kHz 11K0F3E @12.5kHz
4- FSK Modulation	Data only 7K60FXD @12.5kHz Voice and data 7K60FXW@12.5kHz
Modulation Frequency- Deviation Limit	±2.5kHz@12.5kHz, ±4.0kHz@20kHz, ± 5.0kHz@25kHz
Audio Frequency Response	300Hz~3kHz , +1/-3dB
Audio Distortion	≤3%
Vocoder Type	AMBE++

"IP Interconnection" and "Remote Diagnosis" Included

4 、Accessories

Standard	User Manual	Chinese / English
	AC Power Cord	Eu-type AC plug,and a DC backup cable included
	Programming Cable	USB- with- RJ45
Option	Speaker- Microphone	

"Fully compatible with DMR Tier II standard."

"Capable of full operation in DMR Tier II regional (multi-site) digital conventional and trunking systems." (with future software/license upgrade)."

"Can be mounted on a wall or in a 19-inch communication rack."