

ZTE

PR800

Digital Repeater

- Professional 3U Design
- Smart Digital-Analog Auto Detection
- IP Connecting
- Accessory Expansion



Specifications

General	
Digital Protocol	ETSI TS103 361-1,-2,-3
Frequency	UHF1: 400 - 470 MHz VHF: 136 - 174 MHz
Channel Capacity	16
Channel Spacing	12.5 kHz / 20 kHz / 25 KHz
Max Duty Cycle	100%
Operating Voltage	AC100 - 240 V @ 50 / 60 Hz DC13.2 V ± 15%
Dimensions (W × H × D)	482.5 mm × 132.5 mm × 338.5 mm
Weight	11.5 Kg

Transmitter	
Frequency Stability	± 0.5 ppm
Power Output	25 / 40 W (UHF1) 25 / 45 W (VHF)
FM Modulation	12.5 KHz: 11 KΦF3E , 20 kHz : 14 KΦF3E, 25 KHz: 16 KΦF3E
4FSK Digital Modulation	12.5 KHz Data: 7 K 6ΦFXD
	12.5 KHz Voice & Data: 7 K 6ΦFXE
Conducted/Radiated Emission	- 36 dBm @ ≤ 1 GHz , - 30 dBm @ > 1 GHz
Modulation Limiting	± 2.5 KHz @ 12.5 KHz / ± 4 KHz @ 20 KHz / ± 5.0 KHz @ 25 KHz
Adjacent Channel Power	- 60 dB @ 12.5 KHz, - 70 dB @ 20 KHz / 25 kHz
FM Hum and Noise	- 40 dB @ 12.5 kHz, - 45 dB @ 20 kHz / 25 kHz
Audio Response	+ 1dB ~ - 3 dB
Audio Distortion	≤ 3% (Typical)

Receiver	
Frequency Stability	± 0.5 ppm
Analog Sensitivity	0.30 μV (12 dB SINAD)
Digital Sensitivity	0.22 μV (5% BER)
Inter modulation	75 dB (TIA603D)
	70 dB (ETSI)
Adjacent Channel Selectivity	65 dB @ 12.5 kHz / 75 dB @ 20 / 25 kHz (TIA - 603D)
	65 dB @ 12.5 kHz / 75 dB @ 20 / 25 kHz (ETSI)
Spurious Response Rejection	75 dB (TIA603D)
	70 dB (ETSI)
Blocking or Desensitization	90 dB(TIA603D)
	90 dB(ETSI)
FM Hum and Noise	- 40 dB @ 12.5 KHz / - 43 dB @ 20 KHz / - 45 dB @ 25 KHz
Conducted Spurious Emission	- 57 dBm
Audio Response	+ 1dB ~ - 3 dB
Audio Distortion	≤ 3% (Typical)

Environmental Specifications	
Operating Temperature	-30 °C ~ + 60 °C
Storage Temperature	-40 °C ~ + 85 °C

Remark: The above specifications are in accordance with the applicable standard test, due to the continuous development of technology, in the future data may change without notice.

