



# FR530

**KIRISUN digital series enhances the spectrum efficiency both in direct and repeater mode. It delivers the most affordable digital solution for business customers.**

**Simple but smart design for easy operation**

**Smart mixed mode for smooth migration at your own pace**

**Versatile calls, wide communication coverage for better management efficiency**



**KIRISUN FR530**  
**Digital/Analog Repeater**



# FR530 DIGITAL/ANALOG REPEATER

## KEY FEATURES AND BENEFITS

• **100% Continuous Duty Cycle**

The unique cooling design combined with built-in heat pipe and intelligence-control fan provides 100% continuous duty cycle at 25W or 45W output.

• **Smart Analog and Digital Detection**

Mixed mode realizes smart detection of both analog and digital signals on a single channel.

• **Professional 3U Design**

Professional 3U rack mount design, with two handles, leaves enough internal space for duplexer, suitable for desktop or wall mount installation.

• **9 Memory Channels**

9 channels can be pre-programmed with different configurations, thus it is convenient to switch channels for any required situations.

• **One Channel shared by Multiple Groups**

FR530 supports decoding up to a maximum of 16 CDCSS/CTCSS codes in a single analog channel, and 64 CC codes in a single digital channel, providing wide coverage for different analog/digital users from various groups on one channel.

• **Automatized Voltage and Temperature Protection**

When operating voltage, temperature or voltage standing wave ratio exceed the pre-set value, it switches to low power or power off automatically to protect repeater from damage.

## SPECIFICATIONS

General	
Frequency Range	136~174MHz, 400~470MHz
Channel Capacity	9
Channel Spacing	12.5KHz(Analog), 6.25K(Digital)
Duty Cycle(TX, RX)	100%@25W, 100%@40W/45W
Operating Voltage	13.6V DC $\pm$ 20%
Operating Temperature	-25℃ ~ +55℃
Dimension (L*W*H)	425x300x133(3U)
Weight	10kg
Transmitter	
RF Power Output	25W/45W(VHF), 20W/40W(UHF)
Frequency Stability	$\pm$ 2.5 ppm
Frequency Modulation	11K $\phi$ F3E (Analog), 4FSK(Digital)
Antenna Impedance	50 $\Omega$
Modulation Limiting	$\pm$ 2.5KHz@12.5KHz
Radiated Spurious Emission	-36dBm@<1GHz, -30dBm@>1GHz
Adjacent Channel Power	60dB@12.5KHz, 50dB@6.25KHz
FM Noise	35dB@12.5KHz
Modulation Distortion	<3%
Receiver	
Frequency Stability	$\pm$ 2.5 ppm
Reference Sensitivity	0.35 $\mu$ V@12.5KHz, 0.35 $\mu$ V@6.25KHz
Adjacent Channel Selectivity	-60dB@12.5KHz, -50dB@6.25KHz
Intermodulation	65dB
Spurious Response Rejection	70dB
Rated Audio Output	0.5W@8 $\Omega$
Hum and Noise	35dB@12.5KHz
Rated Audio Distortion	$\leq$ 5%



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|-------------------|-----------------|
| 1 Handle          | 5 Speaker       |
| 2 LED Indicators  | 6 Mic Interface |
| 3 Channel Display | 7 Volume Button |
| 4 Channel Knob    |                 |



**Kirisun Communications Co.,Ltd.**

FC CE ① ISO9001: 2008 Accredited Designer & Manufacturer

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