zenitel

DATASHEET

2620810002

SLR5500 Digital Analogue Repeater

Digital Repeater



- 400-470mHz
- 64 Channel Capacity
- High Performance
- High Reliability
- Low Power Consumption

Description

The SLR5500 Digital Analogue Repeater delivers high performance, high reliability two-way radio service with all the features you need to connect your workplace. With its sleek form factor and low power consumption, it’s engineered for low cost of ownership. And with a huge leap forward in technology, it represents the next generation in repeaters.

SLR5500 Digital Analogue Repeater

Versatile and powerful, the SLR5500 Digital Analogue Repeater combines the best of two-way radio functionality with the latest digital technology. It integrates voice and data seamlessly, offers advanced features that are easy to use and delivers increased capacity to meet your communication needs.

Whether you need the simplicity of a single site conventional system, or the powerful trunking capabilities of Capacity Plus, Linked Capacity Plus or Connect Plus, the SLR5500 Digital Analogue Repeater delivers the power of digital two-way radio to your workforce. It can also operate as an analogue repeater, or as a mixed mode analogue/digital repeater while you transition away from a legacy analogue system.

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Specifications

GENERAL SPECIFICATIONS

Frequency Range	400-470 MHz
Channel Capacity	64
RF Output Power	1-50 W
Dimensions (H x W x D)	44 x 483 x 370 mm
Weight	8.6 kg
Input Voltage (AC)	100-240 Vac, 47-63 Hz
Input Voltage Current (standby), 110 / 240 V	0.18 / 0.25 A
Input Voltage Current (transmitting), 110 / 240 V	1.5 / 0.9 A
Input Voltage (DC)	11.0-14.4 Vdc
Input Voltage Current (standby)	0.7 A
Input Voltage Current (transmitting)	9.5A
Humidity	RH of 95%, non-condensing at 50 °C (122 °F)
Max Duty Cycle	100%
FCC Description	ABZ99FT4096
IC Description	109AB-99FT4096
Digital Vocoder Type	AMBE+2™
Battery Charger Capacity	12 V, 3 A
Connectivity	Tx (N female), Rx (BNC female), USB A receptacle, 2x Ethernet
Supported System Types	Digital Conventional, IP Site Connect, Capacity Plus, Linked Capacity Plus, Connect Plus Analogue Conventional, MPT 1327
Operating Temperature Range	-30 to +60 °C (-22 to +140 °F)

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RECEIVER

Frequency Range	400-470 MHz
Channel Spacing	12.5 / 20 / 25 kHz
Frequency Stability	0.5 ppm
Sensitivity, 12dB SINAD	0.22 uV
Sensitivity, 5% BER	0.22 uV
Selectivity (TIA603D), 12.5/20/25 kHz	55 / 80 / 80 dB
Selectivity (TIA603), 12.5/20/25 kHz	68 / 80 / 80 dB
Intermodulation Rejection (TIA603D/ETSI)	82 / 73 dB
Spurious Rejection (TIA603D/ETSI)	95 / 90 dB
Audio Distortion	< 1%
Transmitter Hum and Noise, 12.5/20/25 kHz	-50 / -45 / -45 dB

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TRANSMITTER

Frequency Range	400-470 MHz
RF Output Power	1-50 W
Max Duty Cycle	100%
Channel Spacing	12.5 / 20 / 25 kHz
Frequency Stability	0.5 ppm
Intermodulation Attenuation	40 dB
Adjacent Channel Power (TIA603D), 12.5/20/25 kHz	62 / 78 / 78 dB
Adjacent Channel Power (ETSI), 12.5/20/25 kHz	78 / 62 dB
Conducted Spurious Emissions	-36 dBm < 1 GHz, -30 dBm > 1 GHz
Modulation Fidelity (4FSK)	FSK Error 5%, FSK Magnitude 1%
Audio Response	TIA603D
Audio Distortion	< 1%
Receiver Hum and Noise, 12.5/20/25 kHz	-45 / -50 dB
Rated System Deviation, 12.5/20/25 kHz	±5.0 / ±2.5 kHz

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