



SUDC-M Series Multi-Channel Microwave Up/Downconverter

Datasheet



Saluki Technology Inc.

Preface

Thank you for choosing SUDC-M Series Multi-Channel Microwave Up/Downconverter produced by Saluki Technology Inc.

We devote ourselves to meeting your demands, providing you high-quality measuring instrument and the best after-sales service. We persist with “superior quality and considerate service”, and are committed to offering satisfactory products and service for our clients.

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Document Authorization

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Product Quality Assurance

The warranty period of the product is three years from the date of delivery. The instrument manufacturer will repair or replace damaged parts according to the actual situation within the warranty period.

Product Quality Certificate

The product meets the indicator requirements of the document at the time of delivery. Calibration and measurement are completed by the measuring organization with qualifications specified by the state, and relevant data are provided for reference.

Quality/Settings Management

Research, development, manufacturing and testing of the product comply with the requirements of the quality and environmental management system.

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1. Overview

SUDC-M Series Multi-Channel Microwave Up/Downconverter is a modular frequency converter based on the mainstream standard bus (PXI/CPCI/VPX etc.) that has a high integration, high scalability, and good cost/performance ratio. The RF signal of this series of converter covers single octave and multi-octave, and the frequency step is precise and accurate to 10Hz with a variety of IF and signal bandwidth choices. It is mainly used for wireless communication MIMO, signal monitoring system, GPS, and electronic countermeasures system. Its excellent phase noise, clutter suppression, and in-band flatness data can provide a transparent RF transmission channel to all videos or data communications. PXI/CPCI/VPX are all standard buses that are easy to use – plug and play, reliable, and convenient.

Applications: T&M Systems / Satellite Communications / MIMO

2. Main Characteristics

- Octave RF coverage (S, C, X, Ku, and Ka)
- 2GHz or above instantaneous signal bandwidth
- Multi-octave RF coverage 1.5M ~ 26.5GHz
- Amplitude Equalization and Group Delay Equalization
- Variety of commonly used IF and bandwidth combinations
- Excellent phase noise specification (40GHz): $\leq -100\text{dBc/Hz}@10\text{KHz}$
- Internal and external reference switching
- Broadband IQ modulation and demodulation (2GHz signal bandwidth)
- Choices of coherent dual-channel or non-coherent dual-channel

3. Applications

- **Wireless communication MIMO**
- **Electronic reconnaissance/electronic countermeasures**
- **Navigation and positioning**

