# **Sinolink Technologies**

- Your RF Team for QUANTUM COMPUTING

# **Quantum Engineering Toolkit**

Signal Generator, IQ Mixer, Microwave Switch...





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# Quantum Engineering Toolkit

Sinolink Technologies provides industry-leading phase coherent multichannel Signal Generators. We offer a dedicated clock synchronization mode to maintain phase coherence between different channels even across multiple instruments. With stable room temperature we can ensure days or weeks of operation with constant phase coherence.

- 5Ch Coherent SIGNAL GENERATOR
- High isolation and fast switching MICROWAVE SWITCH
- High isolation, image rejection and broadband IQ MIXER
- Widely used in QUANTUM COMPUTING

Apply for a FREE evaluation demo unit: sales@sinolink-technologies.com

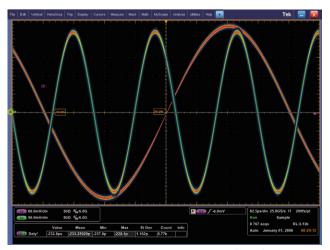
# Phase-Coherent Multi-Channel Signal Generator

#### **Features:**

- Frequency range: 2-18GHz
- 5 RF output channels which can operate individually
- Phase coherent among every channel
- Channel to channel relative phase drift (10GHz, 24h)  $\leq \pm 1^{\circ}$
- · Low phase noise, high output power
- Narrow pulse modulation
- Fast frequency switching time

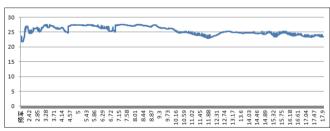
#### **Applications:**

- modulator LO
- Sampling clock of distributed acquisition system
- Synchronizing clock of particle accelerator



Phase Synchronization





Maximum Output Power

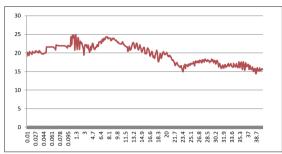


Phase Noise @10GHz

# Microwave Analog Signal Generator

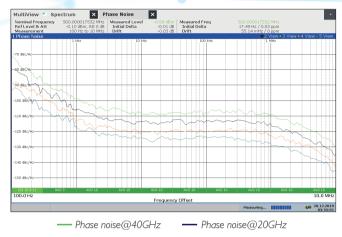
#### Features:

- Non-harmonic spurious < -60dBc (bandwidth: 2GHz-40GHz)
- Maximum output power: ≥ + I 5dBm
- Phase noise < 115dBc/Hz (10GHz, 10kHz offset)
- Narrow pulse modulation, minimum pulse width 100ns
- Rise/fall time 10ns
- · Compact, light weight



Output power





- Phase noise@10GHz

Phase noise@5GHz

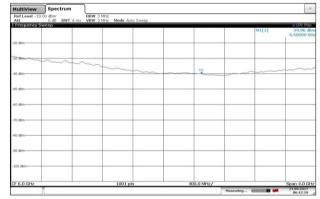
# Broadband IQ Mixer

#### **Features:**

- Ultra-wide frequency range, Support customization
- Frequency conversion loss: IOdB
- Ultra-wide baseband bandwidth: ≥500MHz; (max 3GHz)
- LO isolation: ≤-45dB
- IQ Amplitude unbalance: ≤0.5dB
- IQ phase unbalance:  $\leq 5^{\circ}$  (typ)

## **Applications:**

- Point to point microwave radio
- VSAT
- ATE



LO Leakage

# Microwave Switch

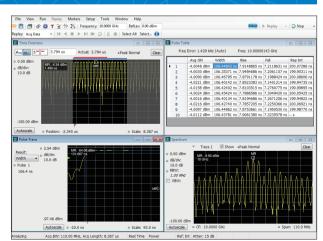
## **Features:**

- Frequency range: I00MHz~I2GHz (can expand to 20GHz)
- Excellent isolation: 45dB (Typ)
- Insertion loss: ≤3dB;
- Switch speed: 10ns (10%-90%)
- Video leakage: ≤40mV
- Input P-I: 20dBm



# **Applications:**

- Base station facilities
- Optical fiber and broadband telecommunications
- Microwave radio and VSAT
- Radar and EMC
- Test instruments



SLSW-OR1-12R0 time response

# High Speed Playback Board

#### **Features:**

- 8 channels output
- 16-bit resolution
- Support external reference clock input
- IGSPS with interpolation
- FMC standard interface
- SFDR: 75dBc (input signal 80MHz @ -0.5 dBFS);

# **Applications:**

• Software-defined radio system

# High Speed Acquisition Board

#### Features:

- 4-channel input, 500MSPS
- 12-bit ADC resolution
- 200MHz Analog input bandwidth
- Support external sampling clock input
- Support external trigger input
- FMC standard interface
- SFDR: 79dBc (input signal 80MHz @ -0.5 dBFS);

### **Applications:**

• Software-defined radio system

For more information on Sinolink Technologies' products, applications or services please contact Sinolink Technologies (Beijing) Co., Ltd. The complete list is available at: www.sinolink-technologies.com



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