



DC - 40 GHz · SIGNAL GENERATORS · UP/DOWN CONVERTERS · MADE IN USA · TEST EQUIPMENT

SignalCore specialises in precision RF signal sources and test instrumentation. USB- and PXI-controlled signal generators, downconverters and IQ modulators for advanced test systems to 40 GHz.



Product Portfolio

Signal Generators

TO 40 GHz

Single- and dual-channel USB sources with low phase noise performance.

Downconverters

TO 40 GHz

USB-controlled units for signal analysis and test bench integration.

Up Converters

TO 18 GHz

Flexible upconversion modules for system configuration and test setup.

IQ Modulators

TO 6 GHz

High-fidelity IQ modulators and demodulators for complex waveform generation.

SMT Nano Synthesiser

TO 21 GHz

Miniature frequency synthesisers in SMT packages for compact embedded designs.

Strengths at a glance

Made in USA

Full manufacturing in the Greater Austin area (Granger, Texas) — TAA-compliant and qualified for US defence procurement and security-critical applications.

AS9100 Certified

Aerospace quality standard AS9100 — established supplier to defence, aerospace and test equipment manufacturers.

RF Synthesisers to 40 GHz

Frequency coverage at 6, 10, 20, 23 and 40 GHz — single and dual channel, clean spectral performance and rapid switching for ATE and research.

Up/Down-Converters to 40 GHz

Multi-stage downconverters (2.5, 3.9, 6, 18, 26.5, 40 GHz) and upconverters (3.9, 6, 18 GHz) — instrument-grade performance for measurement setups.

Direct IQ Modulators

IQ modulators and demodulators to 6 GHz — direct-conversion architecture for SDR, 5G, wireless research and defence communication.

nanoCircuits SMT

Compact SMT synthesisers (HB Series to 20 GHz) and 100/200 MHz reference (WB Series) for embedded applications with minimal footprint.

Industries & Use Cases

Defence & Aerospace

AS9100-certified RF subsystems for radar, electronic warfare, secure communications and avionics with stringent reliability requirements.

ATE & Production Test

Instrument-grade synthesisers and converters for automated test equipment systems, production lines and quality assurance setups.

5G / 6G Research

Up/down-converters to 40 GHz and synthesisers for 5G NR FR1/FR2 test configurations, beamforming validation and mmWave characterisation.

Software-Defined Radio (SDR)

IQ modulators/demodulators and compact synthesisers as building blocks for SDR platforms, experimental communication systems and sensing.

Wireless Communications

Precision sources for base-station testing, receiver characterisation and WLAN/Bluetooth/cellular validation.

Research & Academia

High-performance RF subsystems for universities and research laboratories — compact, programmable and supported by comprehensive APIs.



Available through bq-microwave

bq-microwave is the authorized European distributor for SignalCore. Fast procurement, short lead times and personal technical consultation.

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