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Data Sheet
August 13, 2026

AEROFLEX

Aeroflex 3020 2.50GHz Signal Generator

3020A frequency 250 MHz to 2.7 GHz (listing 2.5 GHz class) Output -120 dBm to +5 dBm with 0.01 dB resolution (3020A) 14 MHz IQ bandwidth on 3020A; up to 90 MHz on enhanced modules LVDS digital IQ interface for real time streaming Output -120 dBm to +5 dBm with 0.01 dB resolution (3020A) 14 MHz IQ bandwidth on 3020A; up to 90 MHz on enhanced modules LVDS digital IQ interface for real time streaming Level accuracy typical plus/minus 0.3 dB CW below 2.25 GHz

MODEL	CALIBRATION
Aeroflex 3020	Available on request
CONDITION	**STATUS**
Used	In stock
RFQ / SKU	**LISTING**
3020	https://aumictechlabs.com/products/3020-2/

NIST-traceable cal · SAM registered · 30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Aeroflex 3020 is a compact 3U PXI modular RF signal generator engineered for R&D, manufacturing, and design verification across communication system test environments. It integrates a dual-channel arbitrary waveform generator (AWG) and operates in conjunction with an external RF synthesizer module to deliver precise frequency control and output power management. The 3020 series supports analog, digital, and vector modulation across a broad frequency spectrum, making it suitable for complex RF test requirements demanding fast frequency switching and low phase noise.Technical Specifications Frequency & Switching Performance Frequency range: 100 kHz to 6 GHz (standard 3020 series) Frequency resolution: Works in conjunction with 3010/11 RF Synthesizer module Frequency switching: 25 µs typical for frequencies 85 MHz and below (3020 option 02); 250 µs typical above 85 MHz (3010 option 01)

Output Power Power range: -120 dBm to +17 dBm (standard models) Power range: -120 dBm to +6 dBm (3020A variant) Level control increments: 0.01 dB Level accuracy: ±0.3 dB typical CW Level stability: Better than 0.05 dB over 23°C ±5°C Modulation & Baseband Internal modulation: AM, FM, I/Q Modulation bandwidth: Up to 90 MHz Digital modulation: Integrated dual-channel AWG or external digital I/Q inputs Vector modulation: Analog I and Q inputs supported (optional) Baseband outputs: Dual differential AWG outputs for simultaneous I/Q and CW RF delivery Arbitrary Waveform Generator Memory capacity: 128 Msamples (3020C/3021C/3025C/3026C); 32 Msamples (3020A/3025); up to 0.5 Gsamples with option 04 Phase Noise (with 3010/11 RF Synthesizer Module) -135 dBc/Hz at 50 MHz (20 kHz offset) -116 dBc/Hz at 2 GHz (20 kHz offset) -108 dBc/Hz at 5 GHz (20 kHz offset) Noise floor: -135 dBc/Hz from 10 MHz offset at 2 GHzKey Features Fast frequency switching from microseconds to sub-millisecond response Fine output power control in 0.01 dB steps with ±0.3 dB accuracy Dual-channel AWG supports independent I and Q generation simultaneously External RF synthesizer integration for optimized frequency stability Vector modulation capability via analog I/Q inputsTypical Applications Communication system design verification and manufacturing test Complex modulation format generation and validation Vector modulation testing with wideband I/Q inputs Multi-channel RF signal generation for system-level testingCompatibility & Integration The 3020 series works with operation with Aeroflex 3010 and 3011 RF Synthesizer modules, which define frequency resolution and switching characteristics. Multiple variants (3020A, 3020C, 3021C, 3025, 3026C) support different frequency ranges and power levels for tailored test requirements.

3020 Characteristics / Specifications

PARAMETER	VALUE
Model	3020 (3020A primary listing)
Manufacturer	Aeroflex
Instrument Type	PXI Digital RF Signal Generator Module
Alias	3020; 3020A; Aeroflex 3020; IFR 3020
Platform	3U PXI (two slot wide module plus LO module)
Frequency range 3020A	250 MHz to 2.7 GHz
Frequency range 3020C	1 MHz to 3 GHz usable to 100 kHz
Frequency range 3021C	100 kHz to 3 GHz
Frequency range 3025/3026C	to 6 GHz family variants
Frequency resolution at or below 3 GHz	1 Hz
Output power 3020A	-120 dBm to +5 dBm
Level resolution	0.01 dB
Level accuracy 3020A typical	plus/minus 0.3 dB above -78 dBm below 2.25 GHz
IQ bandwidth 3020A	14 MHz
IQ bandwidth enhanced series	up to 90 MHz (3020C/3021C class)
Internal AWG memory	32 Msamples dual channel
External LO input	from 3010 or 3011 RF synthesizer module
Modulation	internal analog AM/FM; internal/external digital IQ; external vector
Real time interface	LVDS digital IQ
List mode switching typical	250 us (3020A frequency/level class)
Output impedance	50 ohms
VSWR 3020A	less than 1.35:1 for levels below -3 dBm
Software personalities	GSM EDGE UMTS IS136 IS95 cdma2000 WLAN
Waveform tools	optional IQCreator; FSK PSK QAM custom waveforms
Enhanced peak power 3021C	up to +17 dBm below 3 GHz

PARAMETER	VALUE
Module variants	3020A; 3020C; 3021C; 3025; 3025C; 3026C Notes Listing title "3020 2.50 GHz" maps to 3020A class specs; confirm exact module code (3020A/C, 3021C, etc.), LO pairing, and personality licenses on the PXI chassis.
Bandwidth	up to 14 MHz (28 MHz enhanced variants in 3020C), integrated dual channel 32 MSample AWG, LVDS real time digital IQ input, and level accuracy near plus/minus 0.3 dB typical for CW production test.

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications

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Waveform tools	optional IQCreator; FSK PSK QAM custom waveforms
Enhanced peak power 3021C	up to +17 dBm below 3 GHz
Module variants	3020A; 3020C; 3021C; 3025; 3025C; 3026C

Notes

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Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: **sales@aumictech.com** · +1 (484) 841-9341

Aumictech
788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
https://aumictechlabs.com

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Generated August 13, 2026