

TEKTRONIX

AWG520

The Tektronix AWG520 is a high-performance 2-channel Arbitrary Waveform Generator (AWG) in the AWG500 series, featuring up to 1 GS/s sampling rate, 10-bit vertical resolution, and integrated digital markers. Equipped with a built-in 10 GB hard drive, independent 10-channel 1 GHz digital data generator, and a real-time noise generator, the AWG520 is designed for demanding mixed-signal and communications testing applications.

SPECIFICATIONS

General

Warm-up Time	20 minutes
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Physical

Operating Temperature	10 to 40 °C °C
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Channel Specifications

Number of Analog Channels	2
Vertical Resolution	10 bits
Maximum Sample Rate	1 GS/s
Minimum Sample Rate	50 kS/s
Run Modes	Continuous, Triggered, Gated, Sequence

Sequencer Specifications

Maximum Sequence Steps	8,000 steps
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Auxiliary Inputs and Outputs

Marker Outputs	4 channels (2 per analog channel)
Event Input	Yes

System, Storage, and Connectivity

Removable Storage Media	3.5-inch floppy drive (1.44 MB)
External Display Output	VGA (15-pin D-sub)
Command Set Support	SCPI-compatible

Power and Environmental

Storage Temperature Range	-20 °C to +60 °C
Operating Humidity Range	20% to 80% RH (non-condensing)

Hardware Options

Digital Output Option 03	Adds 10-bit digital data output (ECL level) on rear panel
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Interfaces & Connectors

Analog Output Connectors	BNC (front panel)
Marker Output Connectors	BNC (front panel)
Trigger Input Connector	BNC (front panel)
External Clock Input Connector	BNC (rear panel)
Reference Clock Input Connector	BNC (rear panel)
Reference Clock Output Connector	BNC (rear panel)
Event Input Connector	9-pin D-sub (rear panel)
GPIO Interface Connector	24-pin IEEE-488 (rear panel)
RS-232 Interface Connector	9-pin D-sub (rear panel)
Network Interface Connector	RJ-45 (10Base-T, rear panel)

Storage

Floppy Disk Drive	3.5-inch, 1.44 MB (front panel)
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Software & Features

Waveform Editing Tools	Graphical Waveform Editor, Sequence Editor, Equation Editor
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TECHNOLOGY

Direct Digital Synthesis & Arbitrary Signal Generation

APPLICATIONS

Electronic Test and Measurement

Generated by SpecAtlasHub (specatlashub.com). Specifications are compiled from available sources and are subject to change — verify critical values against the manufacturer before purchase.