

**Aumictech**

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Data Sheet

August 13, 2026

INTERFACE TECHNOLOGY

Interface Technology RS-660 Word Generator

Key Features - Dual operating modes: word generator or timing simulator - CRT with cursor editing; hex or binary data formats - Single-step, repetitious, or continuous run - First-bit and programmable sync outputs; free-running and gated clocks - External clock, trigger, and oscillator inputs - Optional 4K memory (660-001) and TTL/CMOS interface pod (660-010)

Technical Specifications Model: RS-660 Manufacturer: Interface Technology Instrument Type: Timing simulator / word generator Alias: RS-660; RS660; RS 660 Word Generator Channels: 1 to 16 Timing Simulator Channels: 1 to 8 Standard Memory: 1024 × 23 bits Expanded Memory: 4K x 23 (option 660-001) WG Bits 1 Channel: 16384 WG Bits 2 Channels: 8192 WG Bits 4 Channels: 4096 WG Bits 8 Channels: 2048 WG Bits 16 Channels: 1024 TS Bits Per Channel: 1024 Internal Clock: 1.



MODEL

Interface Technology RS-660

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

RS-660

LISTING

<https://aumictechlabs.com/products/rs-660-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Interface Technology RS-660 Word Generator is a specialized instrument for creating and outputting digital word patterns and custom test signals. Operating in dual modes Word Generator and Timing Simulator - it delivers flexible signal generation for digital communication and data processing applications. The Word Generator mode enables creation of digital word patterns with independent channel, bit-per-channel, and data entry configuration. Users select run mode, sync

bit number, clock source, and clock period to suit specific test requirements. Data is displayed in hexadecimal, octal, or binary format. The Timing Simulator mode programs waveforms with infrequent state changes over extended intervals, specifying data state and duration independently. Technical Specifications Model: RS-660 Functionality: Word Generator / Timing Simulator Output: Digital word patterns, custom test signals, data streams Memory: 4K memory option available Clock source: Internal (selectable period) or external input Data formats: Hexadecimal, octal, binary Key Features Word Generator Mode: Channel selection, configurable bits per channel, flexible data entry methods, run mode control, sync bit assignment, clock source and period selection Timing Simulator Mode: State-duration programming for waveforms with extended intervals between transitions Local control via front panel keyboard and display Optional remote programming interfaces Rack-mount adapter option Control Interfaces IEEE Std 488-1978 (optional) RS-232C/TTY (optional) Card Reader Interface (optional) Typical Applications Digital communication signal testing, data stream generation, custom waveform development, and timing simulation for digital systems requiring precise pattern control.

Features & description

From manufacturer datasheet

Features

- Dual operating modes: word generator or timing simulator
- CRT with cursor editing; hex or binary data formats
- Single-step, repetitious, or continuous run
- First-bit and programmable sync outputs; free-running and gated clocks
- External clock, trigger, and oscillator inputs
- Optional 4K memory (660-001) and TTL/CMOS interface pod (660-010)

RS660 Characteristics / Specifications

PARAMETER	VALUE
Model	RS-660
Manufacturer	Interface Technology
Instrument Type	Timing simulator / word generator
Alias	RS-660; RS660; RS 660
Word Generator Channels	1 to 16
Timing Simulator Channels	1 to 8
Standard Memory	1024 × 23 bits
Expanded Memory	4K x 23 (option 660-001)
WG Bits 1 Channel	16384
WG Bits 2 Channels	8192
WG Bits 4 Channels	4096
WG Bits 8 Channels	2048
WG Bits 16 Channels	1024
TS Bits Per Channel	1024
Internal Clock	1.001 Hz to 20 MHz (word generator)
External Clock	0 Hz to 20 MHz
Period Resolution 50 ns	50 ns
Period Range 0.1 us	0.1 us to 99.9 us
Period Range 1 us	1 us to 999 us
Period Range 0.01 ms	0.01 ms to 9.99 ms
Period Range 0.1 ms	0.1 ms to 99.9 ms
Period Range 1 ms	1 ms to 999 ms
Output Drivers	TTL compatible
Output Low	0.4 V max
Rise Fall Time	10 ns into terminated load and 10 ft coax

PARAMETER	VALUE
Channel to Channel Skew	8 ns maximum
Gated Clock to Data Skew	20 ns maximum
Gated Clock to Sync Skew	20 ns maximum
Free Run to Gated Clock	25 ns maximum
Ext Clock to Gated Clock	30 ns maximum
WG Trigger Latency	50 ns max plus 2 clock periods
TS Trigger Latency	150 ns max plus first word period
Input High	+2.0 V min, +5.5 V max
Input Low	-0.5 V min, +0.8 V max
Data Formats	hexadecimal or binary
Power	200 W; 120 V AC +/-10 percent, 50/60 Hz
Alternate Line Voltage	100/220/240 V AC, 50/60 Hz
Dimensions	134 mmHx 432 mmWx 430 mm D (including 46 mm handles)
Weight	13.6 kg (30 lb)
Remote	RS232 baud selectable on rear rotary switch; optional GPIB
NSN	6625-01-296-3416

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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TS Bits Per Channel	1024
Internal Clock	1.001 Hz to 20 MHz (word generator)
External Clock	0 Hz to 20 MHz
Period Resolution 50 ns	50 ns
Period Range 0.1 us	0.1 us to 99.9 us
Period Range 1 us	1 us to 999 us
Period Range 0.01 ms	0.01 ms to 9.99 ms
Period Range 0.1 ms	0.1 ms to 99.9 ms
Period Range 1 ms	1 ms to 999 ms
Output Drivers	TTL compatible
Output Low	0.4 V max
Rise Fall Time	10 ns into terminated load and 10 ft coax
Channel to Channel Skew	8 ns maximum

PARAMETER	VALUE
Gated Clock to Data Skew	20 ns maximum
Gated Clock to Sync Skew	20 ns maximum
Free Run to Gated Clock	25 ns maximum
Ext Clock to Gated Clock	30 ns maximum
WG Trigger Latency	50 ns max plus 2 clock periods
TS Trigger Latency	150 ns max plus first word period
Input High	+2.0 V min, +5.5 V max
Input Low	-0.5 V min, +0.8 V max
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Notes

Specs from the Interface Technology Model RS-660 Timing Simulator/Word Generator user and instruction manuals (1980/1979). Confirm 4K memory option 660-001, interface pod, line voltage, and GPIB on the unit.

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

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NIST-traceable calibration · SAM registered ·
30-day returns
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Generated August 13, 2026

Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.