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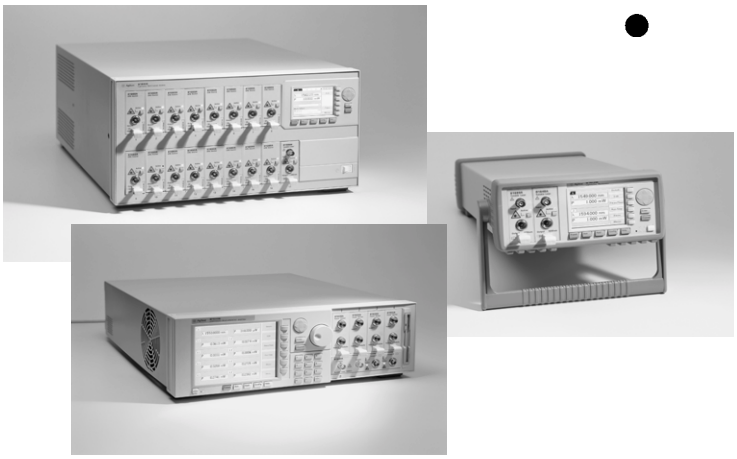
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Find the *Keysight / Agilent 8163A* at our website: ***Click HERE***

Agilent 8163B Lightwave Multimeter
Agilent 8164B Lightwave Measurement System
Agilent 8166B Lightwave Multichannel System

Technical Specifications
May 2003



Agilent Technologies

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Agilent 8163B Mainframe

The Agilent lightwave multimeter system includes the mainframe and a variety of plug-in modules, suited for set-ups requiring:

- single or dual channel power meters
- single or dual wavelength fixed or tunable sources
- loss test sets
- return loss test sets

Specifications

Display	Graphical active color display 300 x 240 points visible, 4 updates per second
Display resolution (power meters)	0.0001dB/dBm, 0.01pW to 10pW (depending on power meter) , up to 6.5 digits (user definable)
Compatibility	The Agilent 8163B mainframe supports all HP 8153A Series and Agilent 8163A & B Series modules.[1]
Trigger	True synchronous on all channels. Max. 100 kHz for triggering and 1 MHz (50% duty cycle) for external digital modulation.
Environmental Storage temperature Operating temperature Humidity	 -40°C to +70°C 0°C to +45°C <95% rH from 0°C to 55°C The products are designed for pollution degree 2 The maximum operation altitude is 2000m
Power	AC 100 – 240 V ± 10%, 50 - 60Hz ±5%, 120VA max.
Dimensions (Height x Width x Length) **Weight**	88mm x 213mm x 380mm (3.5" x 8.4" x 15") net 4.200kg (9.3lbs), shipping 6.5kg (14.5lbs)
GPIB capability	All modes and parameters accessible via GP-IB interface
GPIB interface function codes[2]	SH1, AH1, T6, L4, SR0, RL1, PP0, DC1, DT0, C0. SCPI Standard
GPIP interface performance	Max. 300 kB/sec (burst data rate during read of 12001 data points from power meter)
Parallel Printer Interface	Centronics
RS232 Interface: max. baud rate	115200 bps
Number of modules	2 Modules
Ordering information Agilent 8163B Lightwave Multimeter Option 908 Rack mount kit 08163-44101 Filler panel for empty slots	

[1] Agilent 8163B Series modules are NOT compatible with the HP 8153A Lightwave Multimeter.

[2] For code compatibility to the HP 8153A Lightwave Multimeter please refer to the mainframe's Programming Guide, part number 08764-91026.

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Agilent 8164B Mainframe

The Agilent 8164B Lightwave Measurement System
supports a range of high-performance tunable laser modules,
as well as all of the fixed source and sensor modules of the
Agilent 8153A and Agilent 8163A/B Lightwave Multimeter series

Specifications

Display	Graphical active color display, 640 x 480 points visible, 4 updates per second, VGA connector for external monitor
Display Resolution	
Compatibility	The Agilent 8163B mainframe supports all HP 8153A Series and Agilent 8163A & B Series modules.[1]
Trigger	True synchronous on all channels. Max. 100 kHz for triggering and 1 MHz (50% duty cycle) for external digital modulation.
Environmental Storage temperature Operating temperature Humidity	 -40°C to +70°C 10°C to +35°C <80% rH from 10°C to 35°C The products are designed for pollution degree 2 The maximum operation altitude is 2000m
Power	AC 100 – 240 V ±10%, 50/60Hz , 280VA max.
Dimensions (Height x Width x Length) **Weight**	145 mm x 426 mm x 545 mm (5.8" x 16.9" x 21.6") net 20kg, shipping 23kg
GPIB capability	All modes and parameters accessible via GP-IB interface
GPIB interface function codes[2]	SH1, AH1, T6, L4, SR0, RL1, PP0, DC1, DT0, C0. SCPI Standard
GPIP interface performance	Max. 300 kB/sec (burst data rate during read of 12001 data points from power meter)
Parallel Printer Interface	Centronics
RS232 Interface: max. baud rate	115200 bps
Number of Modules	4/1 Modules
Ordering Information Agilent 8164B Lightwave Multimeter Option 908 Rack mount kit 08163-44101 Filler panel for empty slots (compact slots only)	

[1] Agilent 8163B Series modules are NOT compatible with the HP 8153A Lightwave Multimeter.

[2] For code compatibility to the HP 8153A Lightwave Multimeter please refer to the mainframe's Programming Guide, part number 08764-91026.

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Agilent 8166B Mainframe

The Agilent 8166B Lightwave Multichannel System can be easily integrated into test environments by using plug and play drivers over GPIB, or by using the configurable hardware input and output trigger ports.

All modules of the Agilent 8163A/B Lightwave Multimeter family can be used in any combination in the Multichannel System.

Specifications

Display	Graphical active color display, 300 x 240 points visible, 4 updates per second, VGA connector for external monitor
Display Resolution	0.0001dB/dBm, 0.01pW to 10pW (depending on power range) , up to 6.5 digits (user definable)
Compatibility	The Agilent 8166B mainframe supports all modules from the 8163A/B Lightwave Multimeter series.[1]
Trigger	True synchronous on all channels. Max. 100 kHz for triggering and 1 MHz (50% duty cycle) for external digital modulation.
Environmental Storage temperature Operating temperature Humidity	 -40°C to +70°C 0°C to +45°C <95% rH.from 0°C to 45°C The products are designed for pollution degree 2 The maximum operation altitude is 2000m
Power	AC 100 – 240 V ±10%, 50/60Hz, 450VA max.
Dimensions (Height x Width x Length) **Weight**	240 mm x 430 mm x 580 mm (9.5" x 17" x 23") net 23kg, shipping 45kg
GPIB capability	All modes and parameters accessible via GP-IB interface
GPIB interface function codes [2]	SH1, AH1, T6, L4, SR0, RL1, PP0, DC1, DT0, C0. SCPI Standard
GPIP interface performance	Max. 300 kB/sec (burst data rate during read of 12001 data points from power meter)
Parallel Printer Interface	Centronics
RS232 Interface: max. baud rate	115200 bps
Number of Modules	17 Modules
Ordering Information Agilent 8166B Lightwave Multimeter Option 908 Rack mount kit 08163-44101 Filler panel for empty slots	

[1] Modules designed for the HP 8153A Lightwave Multimeter are NOT compatible with the Agilent 8166A/B Lightwave Multichannel System.

[2] For code compatibility to the HP 8153A Lightwave Multimeter please refer to the mainframe's Programming Guide, part number 08764-91026.

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Agilent Technologies' Test and Measurement Support, Services, and Assistance

Agilent Technologies aims to maximize the value you receive, while minimizing your risk and problems. We strive to ensure that you get the test and measurement capabilities you paid for and obtain the support you need. Our extensive support resources and services can help you choose the right Agilent products for your applications and apply them successfully. Every instrument and system we sell has a global warranty. Support is available for at least five years beyond the production life of the product. Two concepts underlie Agilent's overall support policy: "Our Promise" and "Your Advantage."

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By internet, phone, or fax, get assistance with all your test & measurement needs

Online assistance:

www.agilent.com/comms/lightwave

For related literature, please visit:

www.agilent.com/comms/lwmainframes

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5988-3924EN

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