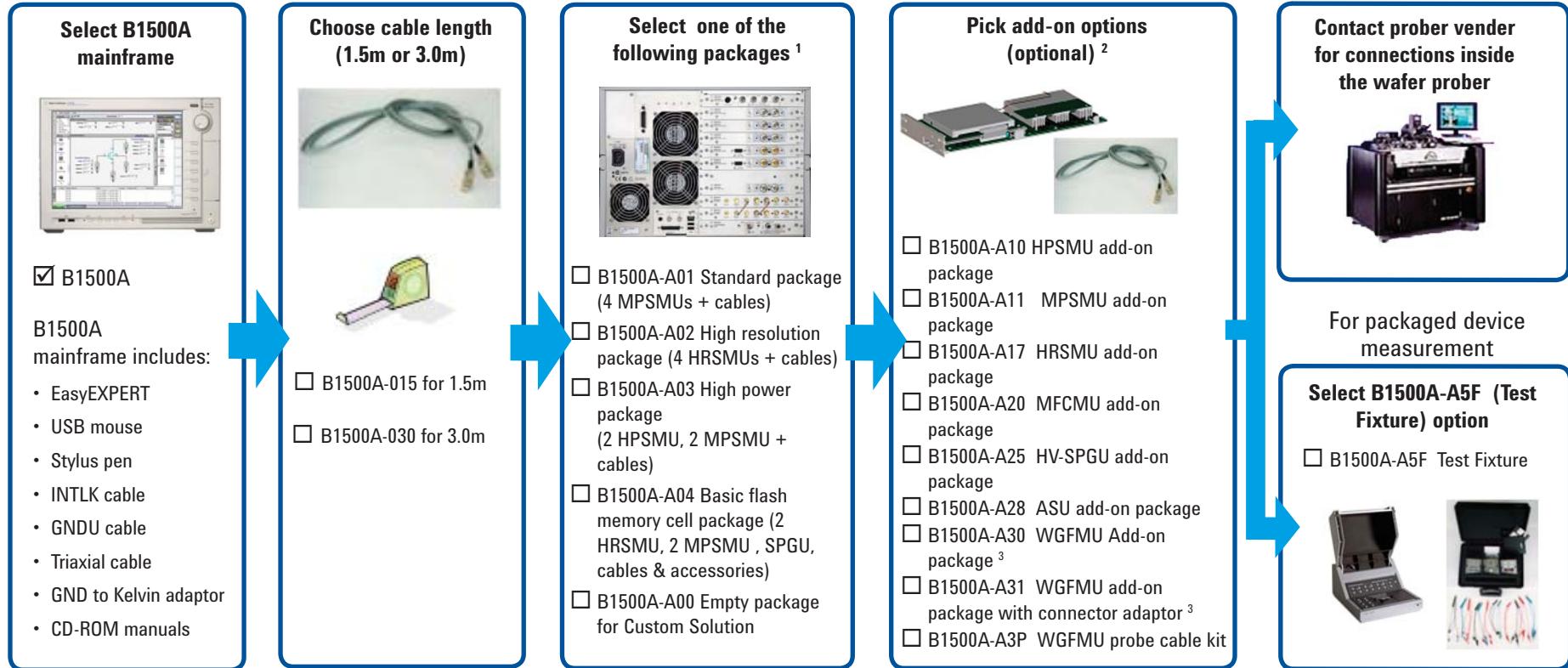




B1500A Semiconductor Device Analyzer

Agilent B1500A Simplified Configuration Process

Follow these simple steps to create your desired configuration:



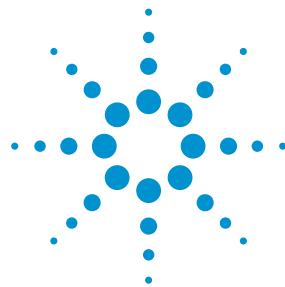
¹ Each package includes the cables that are typically required to use it. Please refer to Table 1 on the back page of this document for a description of the available measurement resources. For more details, please download the B1500A datasheet located at www.agilent.com/find/B1500A

² Each add-on package except for option B1500A-A3P adds one module and the cables typically required for it. You can specify multiple quantities of each add-on package (except for option B1500A-A20), so you must specify a quantity for each add-on option selected. Option B1500A-A3P includes the cables required for on-wafer measurement when using the WGFMU. For more details, please download the B1500A datasheet located at www.agilent.com/find/B1500A

³ Please contact your local Agilent office to find out which WGFMU add-on package fits to your requirements. The complete contact list is available at www.agilent.com/find/contactus



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B1500A Semiconductor Device Analyzer

Selecting the Correct Package Option(s) for Various Applications

Configuration Examples:

For MOSFET characterization Standard package  <ul style="list-style-type: none">• B1500A, B1500A-030• B1500A-A01	For deep submicron device characterization High resolution package  <ul style="list-style-type: none">• B1500A, B1500A-015• B1500A-A02	For bipolar device or reliability characterization High power package  <ul style="list-style-type: none">• B1500A, B1500A-030• B1500A-A03	For flash memory cell characterization Basic flash memory cell package  <ul style="list-style-type: none">• B1500A, B1500A-015• B1500A-A04	For materials characterization and other similar activities Custom configuration using add-on options  <ul style="list-style-type: none">• B1500A, B1500A-015• B1500A-A00• B1500A-A17 2ea.• B1500A-A5F
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Table 1. B1500A measurement resources

Resource	Description
HPSMU	High Power SMU (200V/1A, 10fA res.)
MPSMU	Medium Power SMU (100V/100mA, 10fA res.)
HRSMU	High Resolution SMU (100V/100mA, 1fA res.)
MFCMU	Multi-Frequency Capacitance Measurement Unit (1k – 5MHz, 25V DC bias (up to 100V by SCUU))
ASU	Atto Sense Unit (100aA res. With HRSMU, Switching function)
HVSPGU	High-Voltage Semiconductor Pulse Generator (2-ch PGU with ALWG function, +/-20V force at 50Ω, +/-40V at open load, 10nsec pulse width, 30ns pulse period)
WGFMU	Waveform Generator / Fast Measurement Unit (2-ch PG and Fast IV mode, +/-10V pulse force at 50Ω load. 100ns pulse at PG mode, Minimum 5ns sampling interval)

For more information on the B1500A, please visit: www.agilent.com/find/B1500A

Technical data subject to change without notice.

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Table 2. Other accessories

Resource	Description
B1540A-002	License to use for Agilent EasyEXPERT Plus ⁴
B1541A	Desktop EasyEXPERT software
B1541A-001	License to use for Desktop EasyEXPERT standard version
B1541A-002	License to use for Agilent Desktop EasyEXPERT Plus *4
B1542A	Ultra short pulsed IV package
N1301A	CMU accessories for B1500A
N1301A-100	SCUU (SMU CMU Unify Unit)
N1301A-102	SCUU cable (3m)
N1301A-110	SCUU magnetic stand
B1542A	Ultra short pulsed IV package

⁴ Necessary to use E5250A / E5252A switching matrix GUI



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