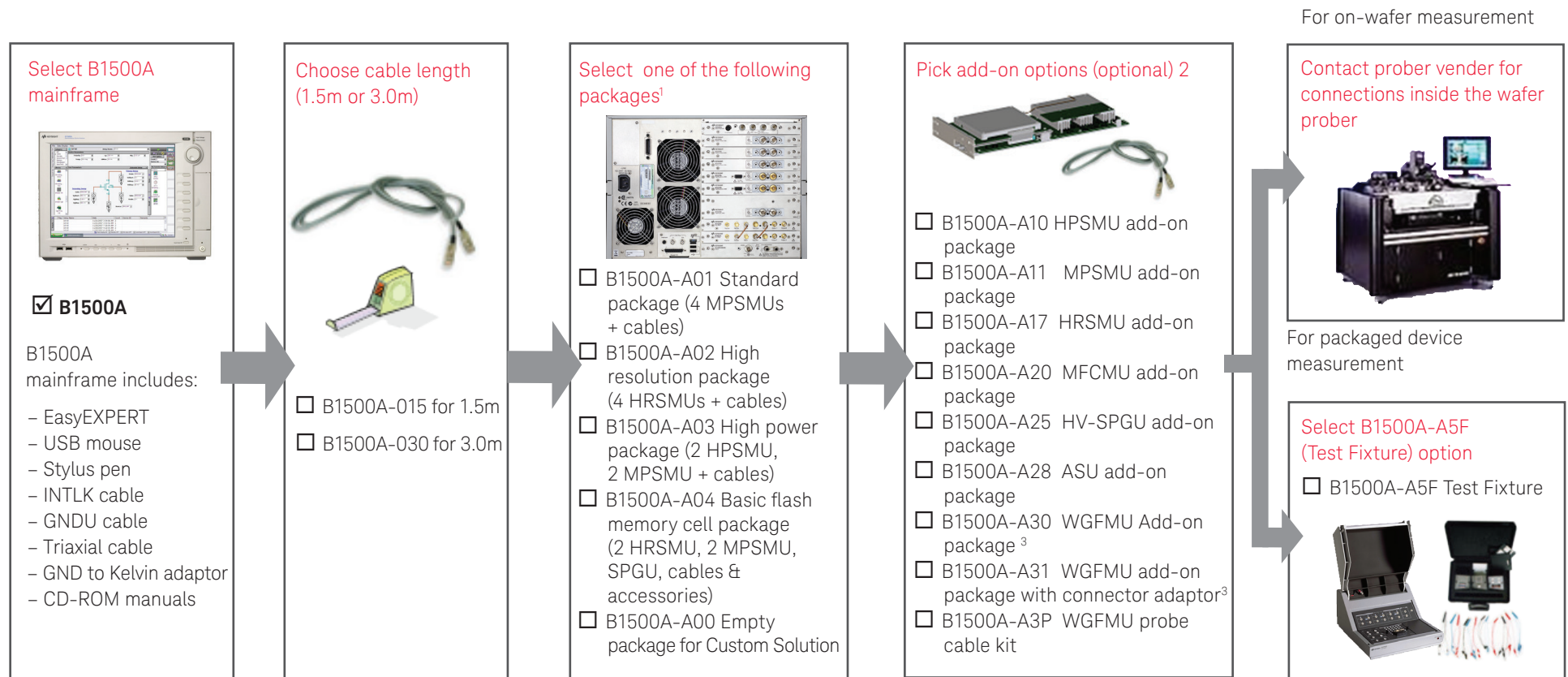


Keysight B1500A Semiconductor Device

Selection Guide 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.keysight.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 WGF MU.

For more details, please download the B1500A datasheet located at www.keysight.com/find/B1500A

3 Please contact your local Keysight office to find out which WGF MU add-on package fits to your requirements. The complete contact list is available at www.keysight.com/find/contactus

Keysight B1500A Semiconductor Device

Selecting the Correct Package Option(s) for Various Applications

Configuration Examples:

<p>For MOSFET characterization</p> <p>Standard package</p>  <p>- B1500A, B1500A-030 - B1500A-A01</p>	<p>For deep submicron device characterization</p> <p>High resolution package</p>  <p>- B1500A, B1500A-015 - B1500A-A02</p>	<p>For bipolar device or reliability characterization</p> <p>High power package</p>  <p>- B1500A, B1500A-030 - B1500A-A03</p>	<p>For flash memory cell characterization</p> <p>Basic flash memory cell package</p>  <p>- B1500A, B1500A-015 - B1500A-A04</p>	<p>For materials characterization and other similar activities</p> <p>Custom configuration using add-on options</p>  <p>- B1500A, B1500A-015 - B1500A-A00 - B1500A-A17 2ea. - B1500A-A5F</p>
---	---	---	---	---

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)

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