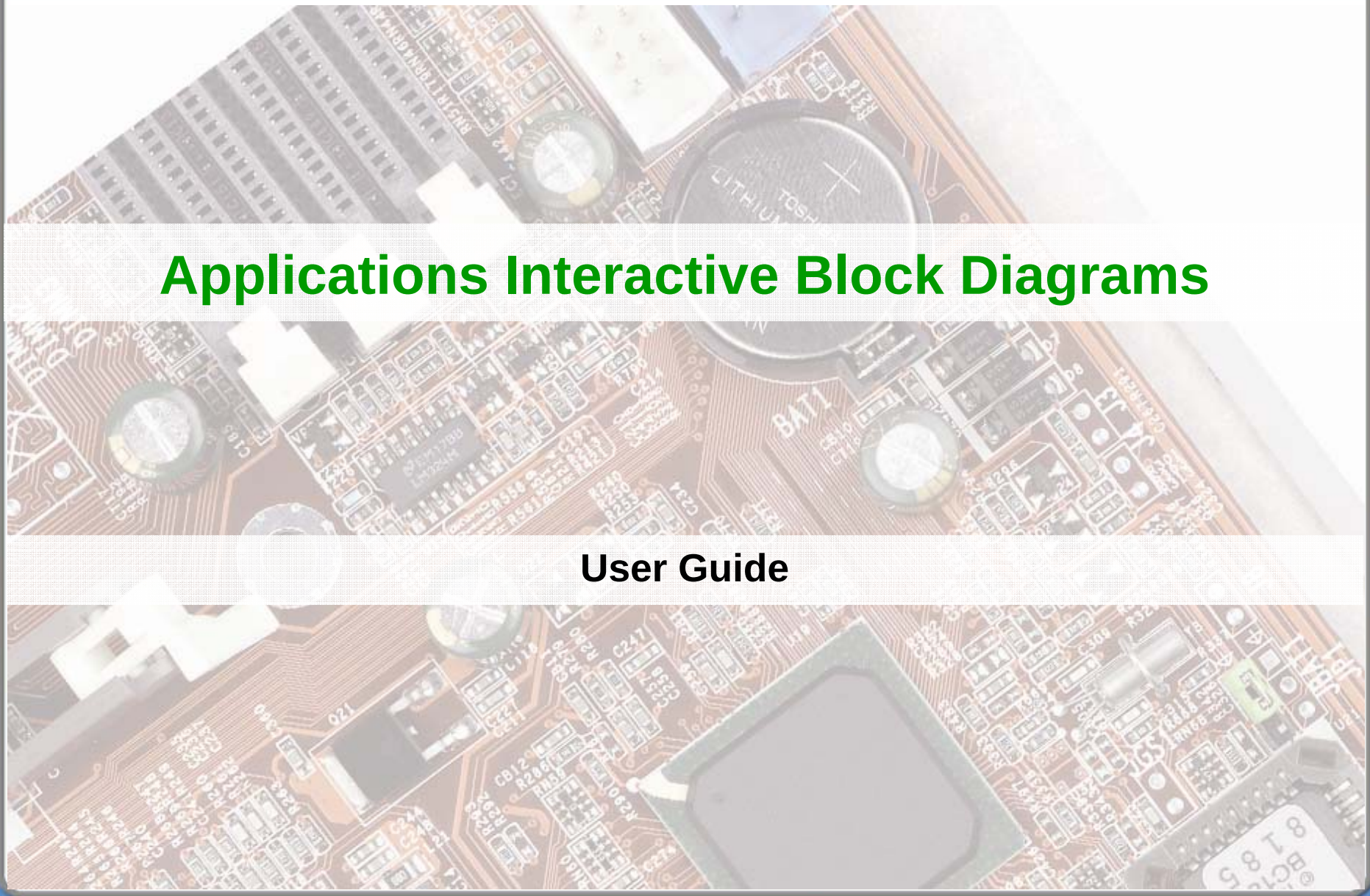


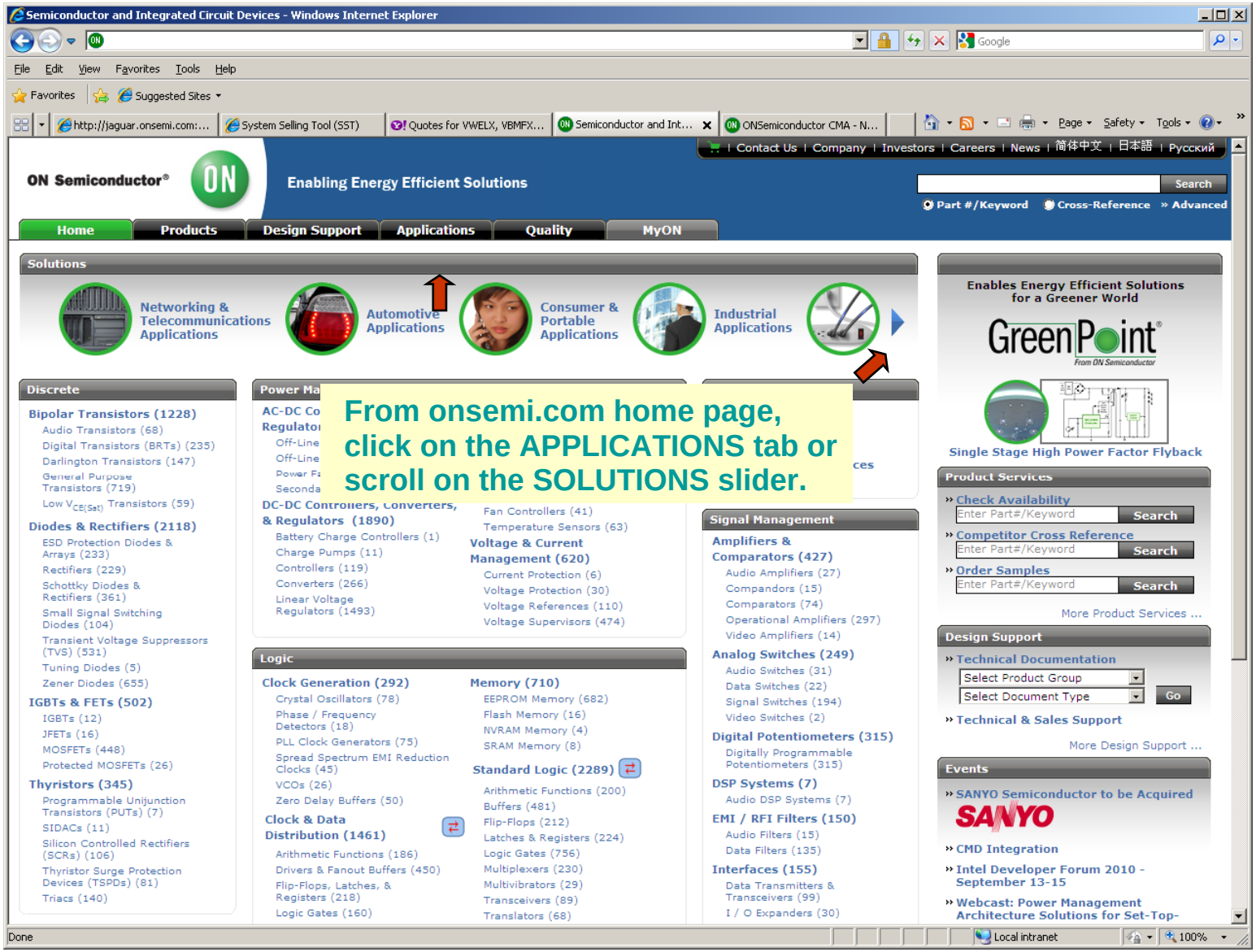
Applications Interactive Block Diagrams

User Guide

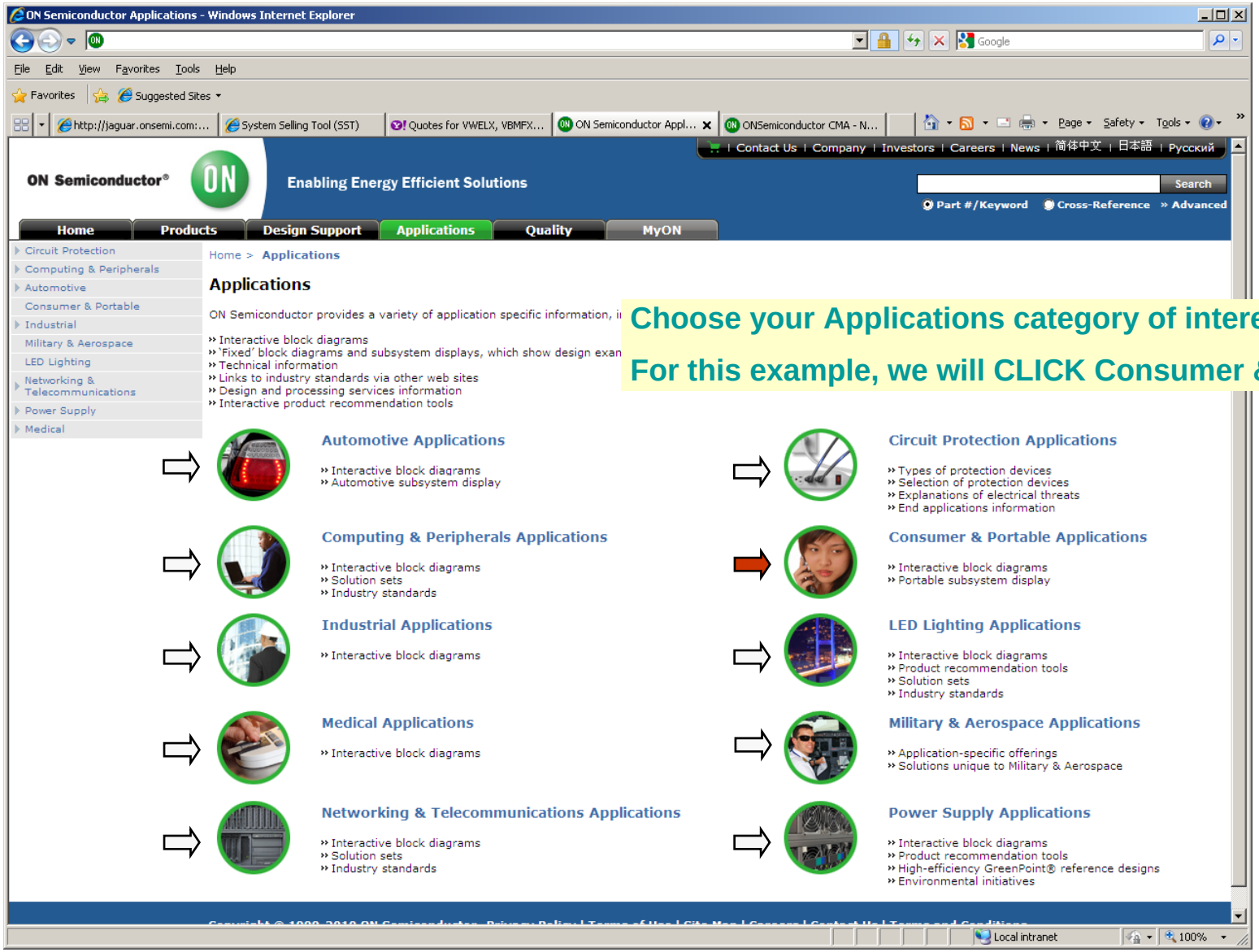
Interactive Block Diagrams

- Interact with block diagrams for a wide variety of applications.
- View and select ON Semiconductor devices which are functionally specific for each block.
- Create a Word summary document containing a listing of devices you have selected for each block in the block diagram. Links to each datasheet are provided.
- Print the document, if desired.

ON Semiconductor Home Page



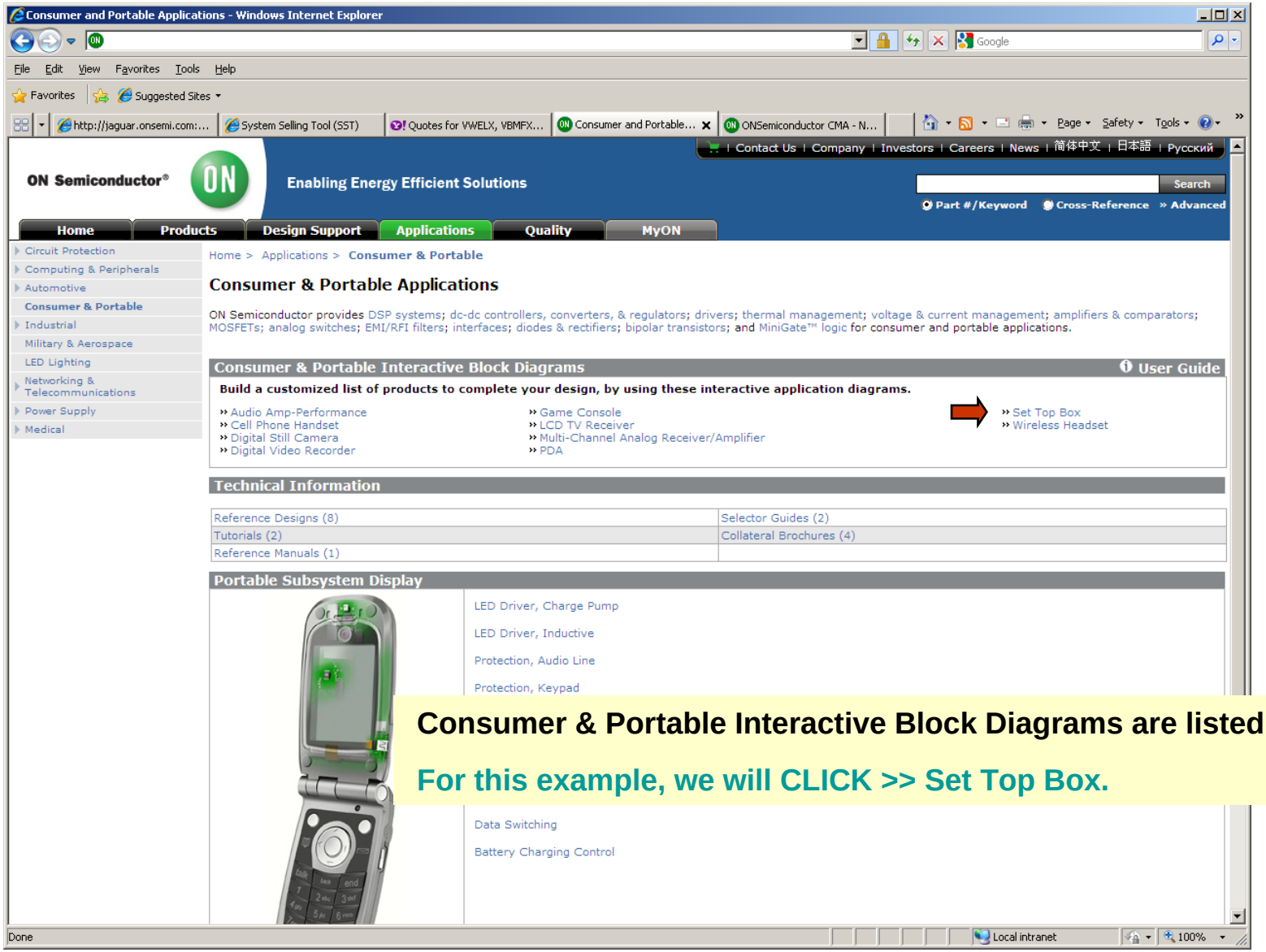
Applications Home Page



Choose your Applications category of interest.

For this example, we will CLICK Consumer & Portable.

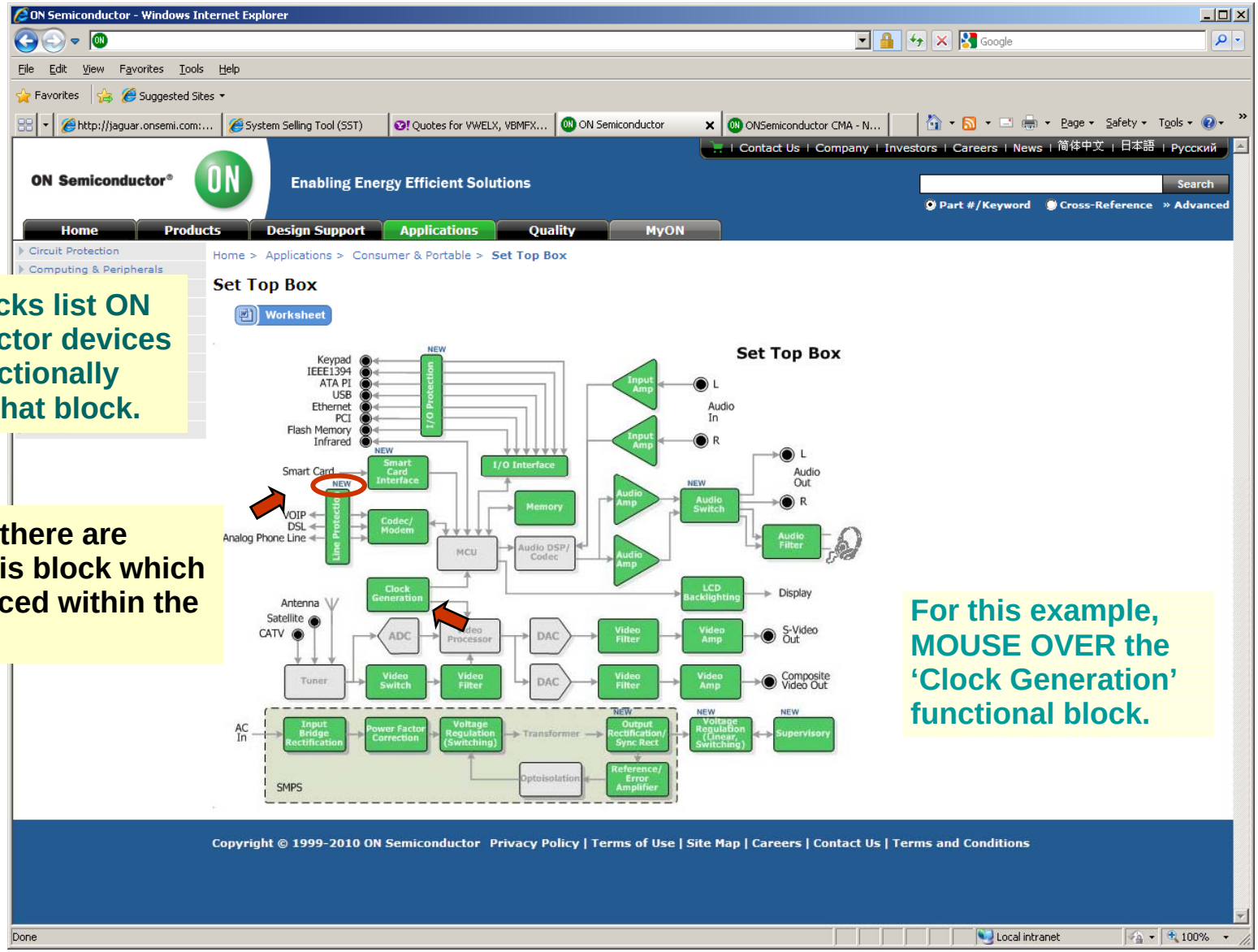
Consumer & Portable Home Page



Consumer & Portable Interactive Block Diagrams are listed in the top pane.

For this example, we will CLICK >> Set Top Box.

Block Diagram

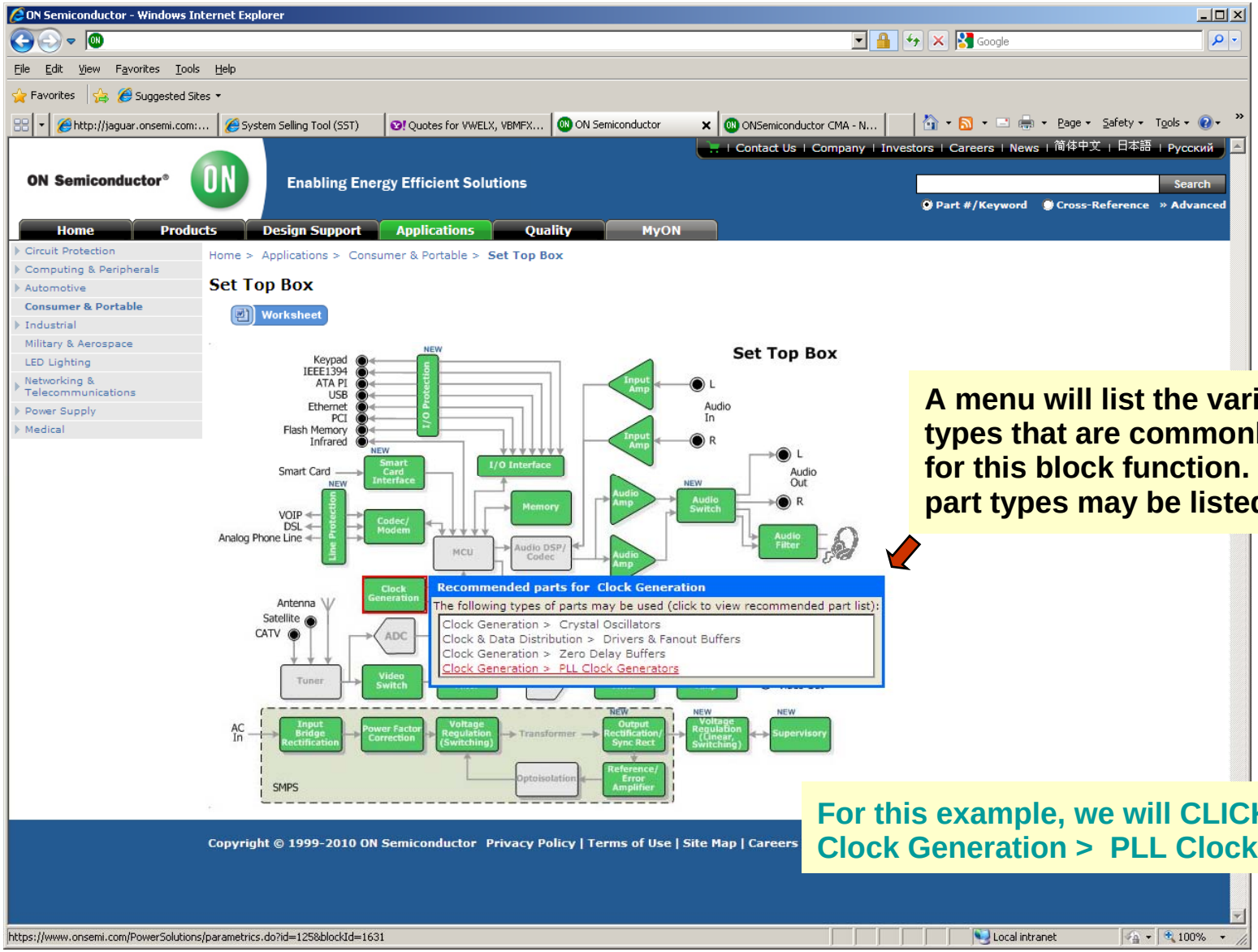


GREEN blocks list ON Semiconductor devices that are functionally specific to that block.

NEW means there are devices in this block which were introduced within the last 90 days.

For this example, MOUSE OVER the 'Clock Generation' functional block.

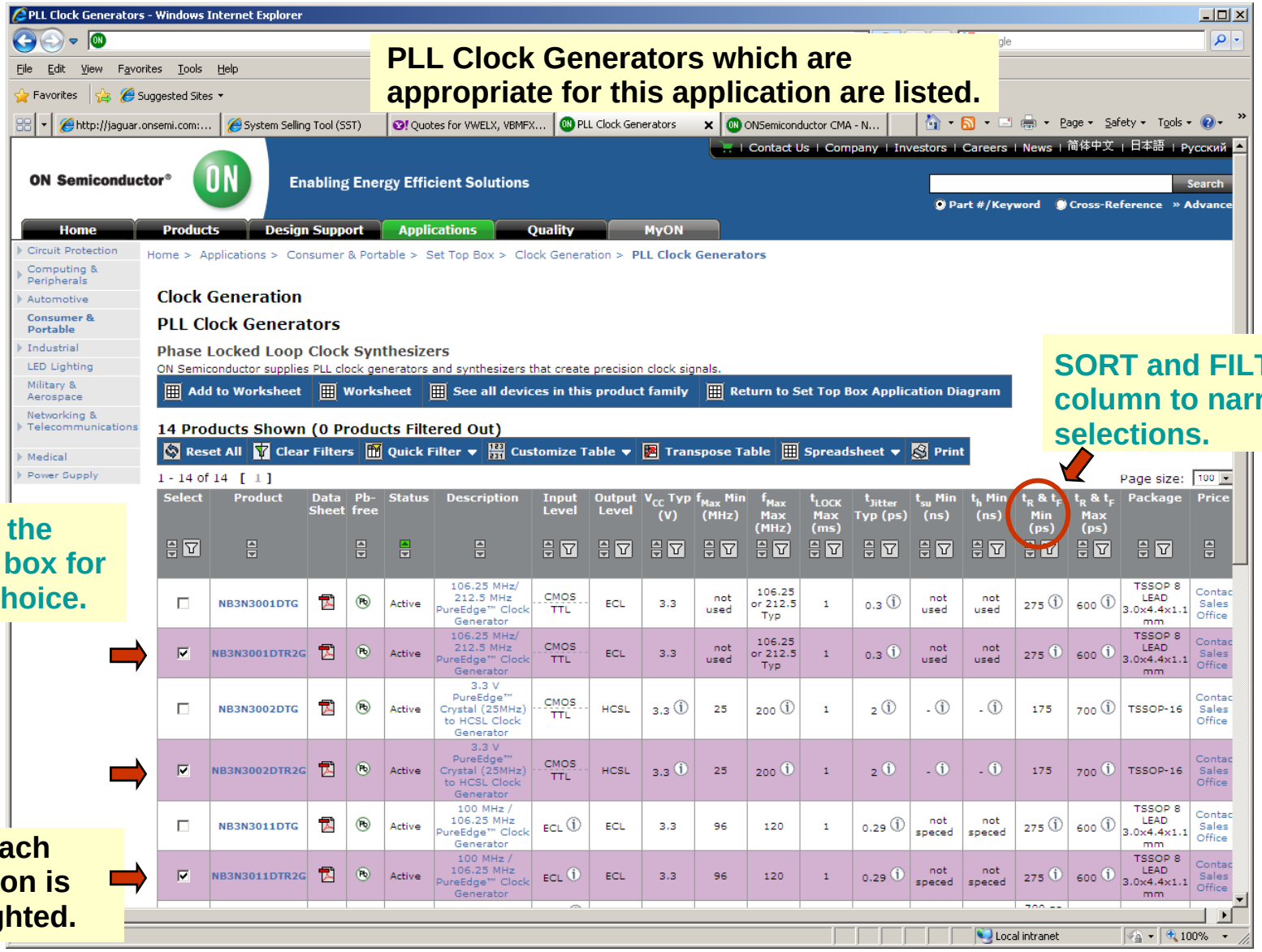
Part Type Selection



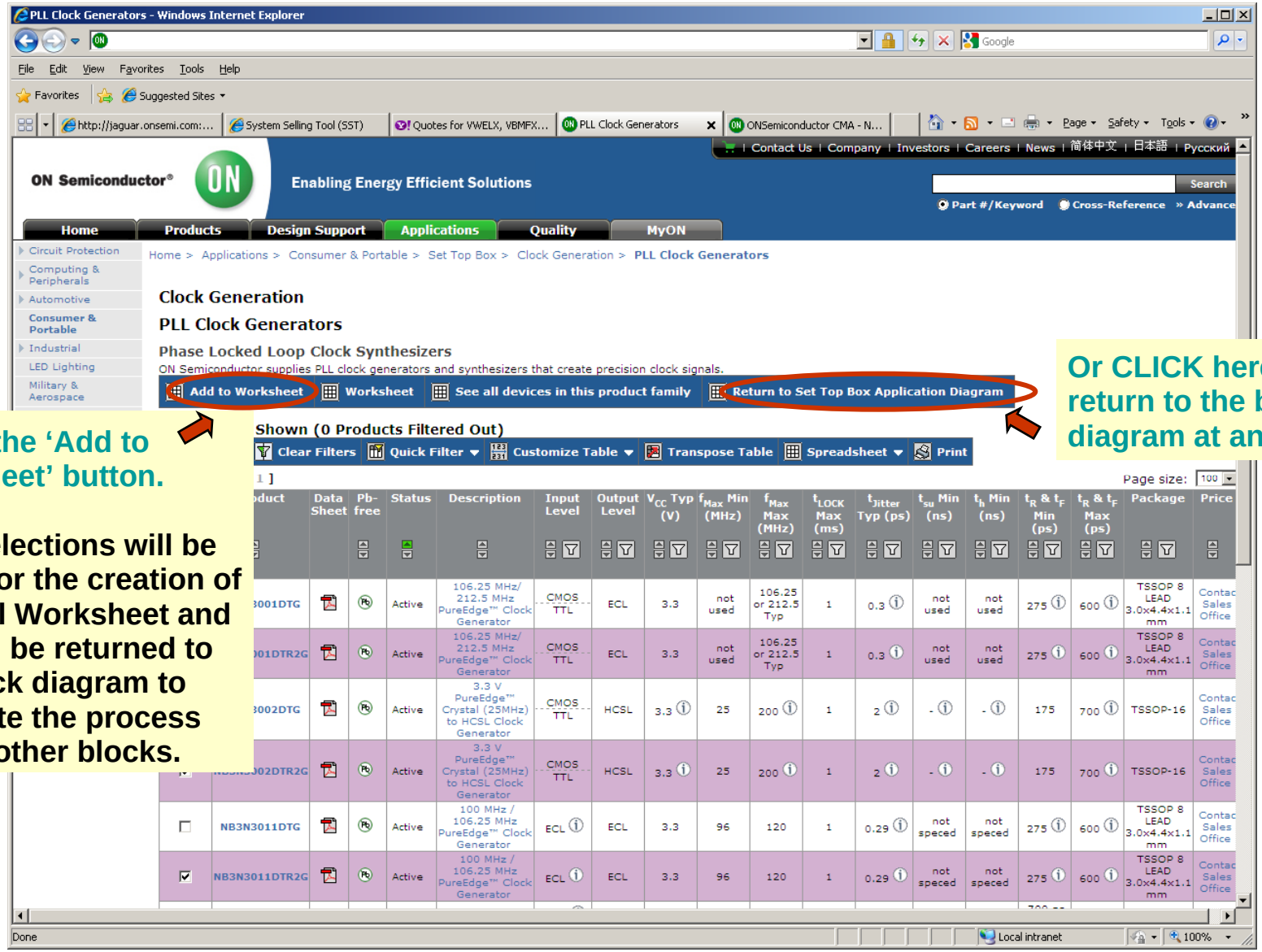
A menu will list the various part types that are commonly used for this block function. Several part types may be listed.

For this example, we will CLICK Clock Generation > PLL Clock Generators

Device Selection



Device Selection

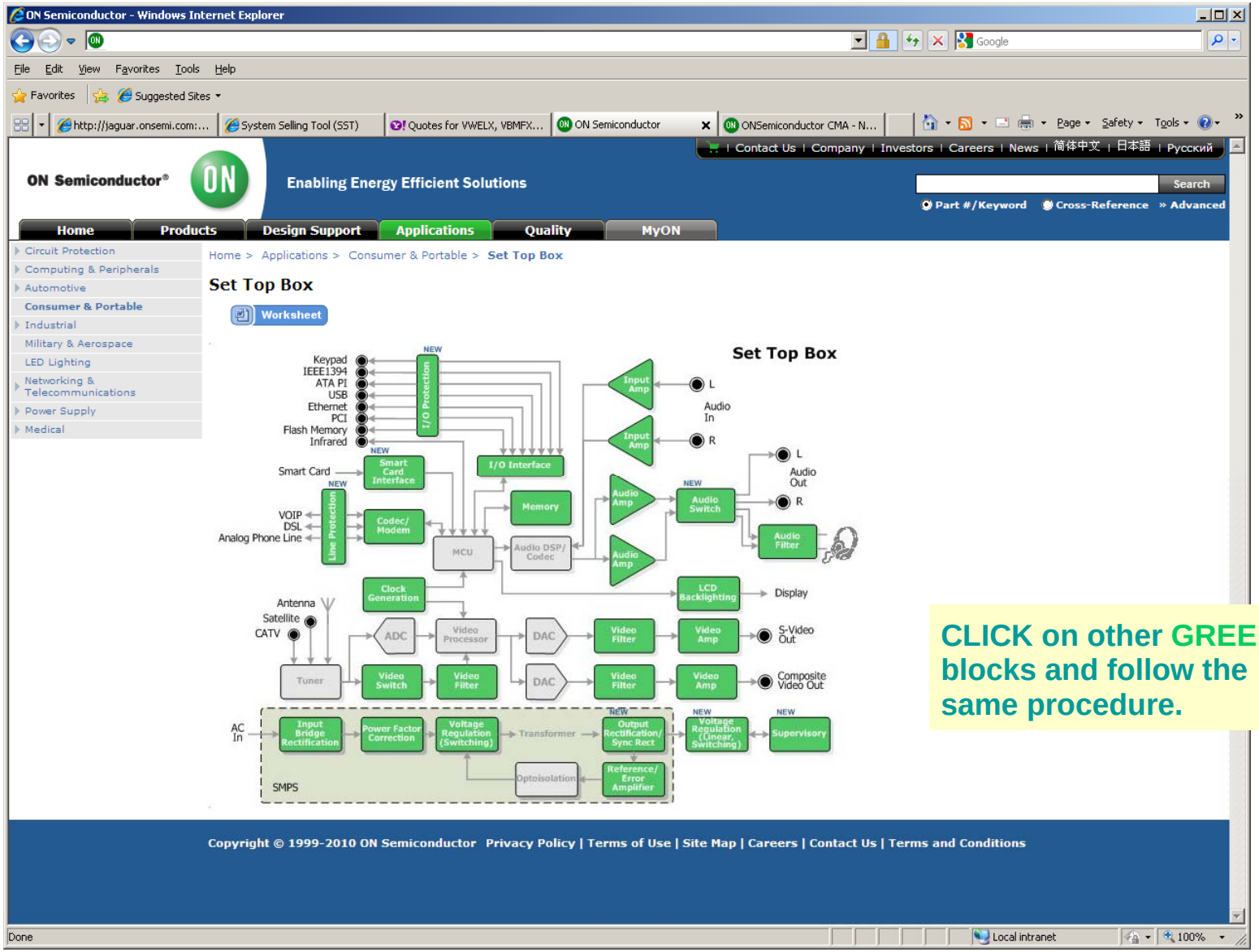


CLICK the 'Add to Worksheet' button.

Your selections will be saved for the creation of the final Worksheet and you will be returned to the block diagram to complete the process for the other blocks.

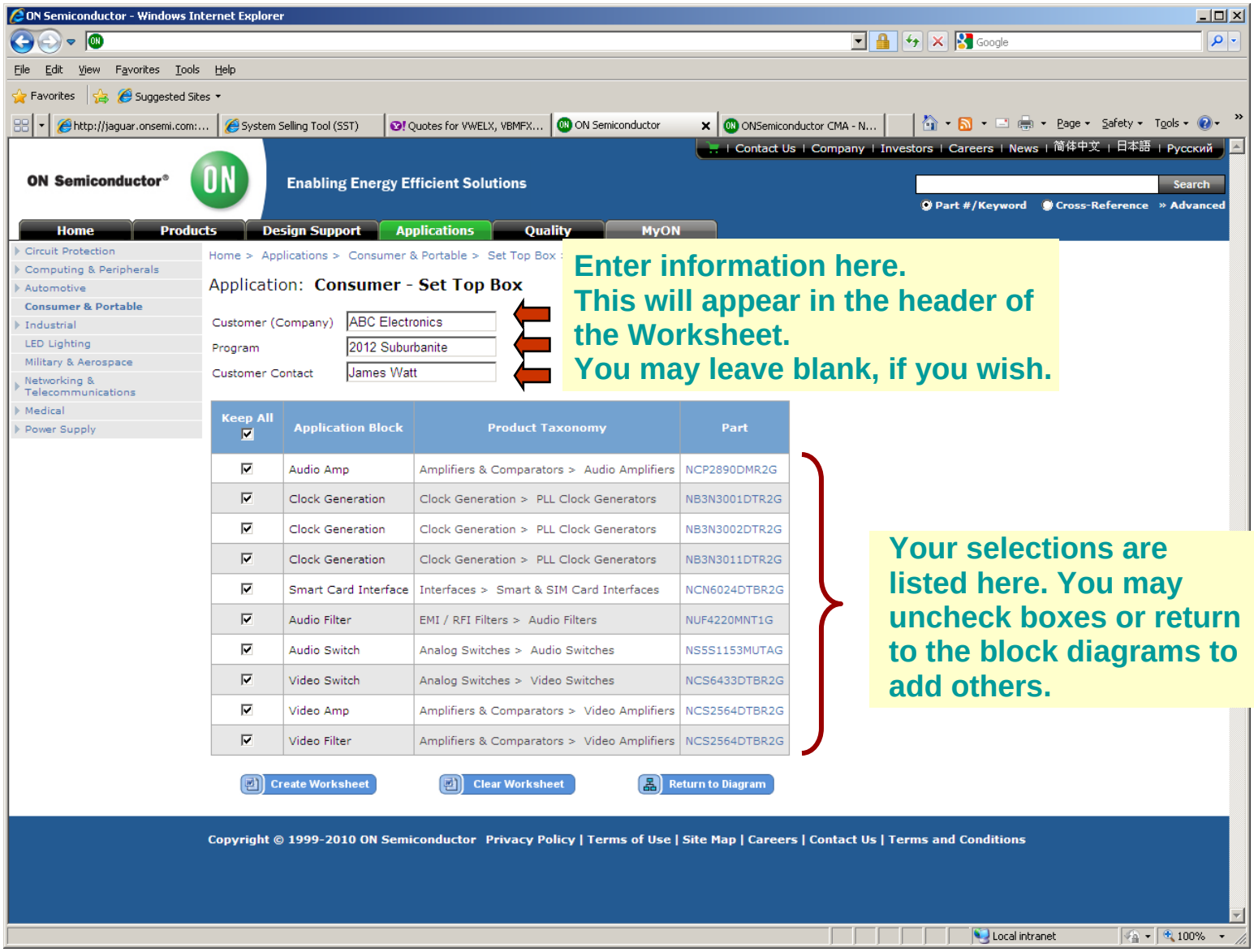
Or CLICK here to return to the block diagram at any time.

Finish Device Selections

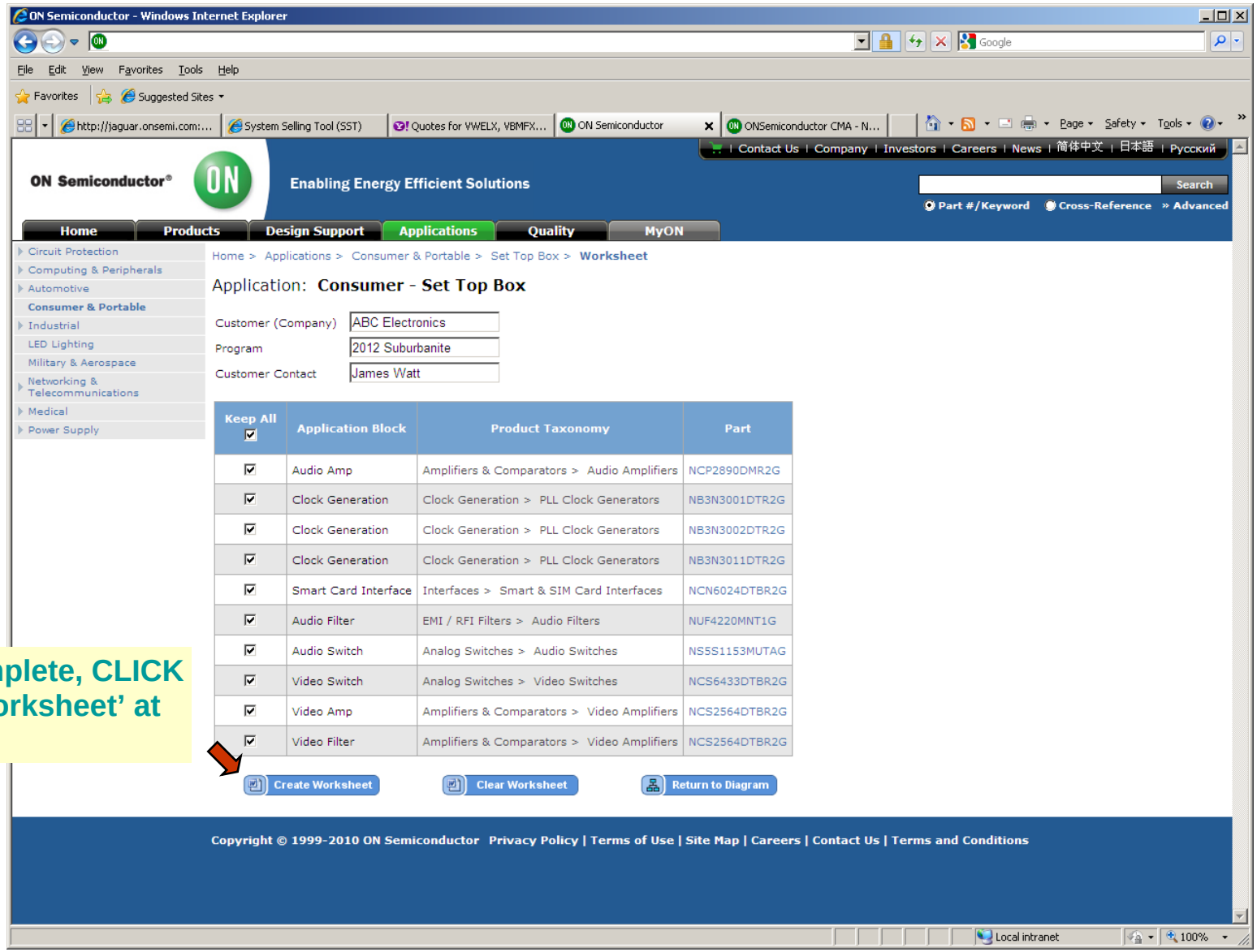


CLICK on other GREEN blocks and follow the same procedure.

Creating the Output Worksheet

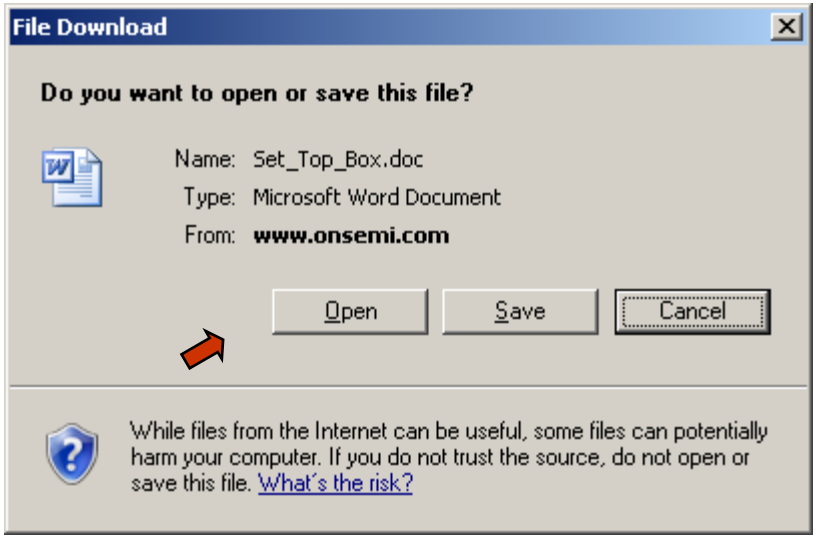


Creating the Output Worksheet



When complete, CLICK 'Create Worksheet' at bottom

Creating the Output Worksheet



'Worksheet' may be opened immediately or saved to your hard drive.

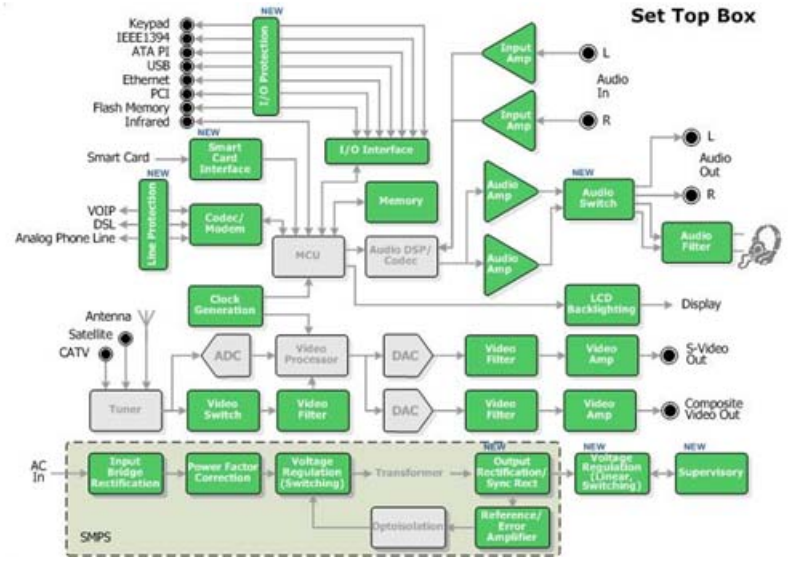
CLICK 'Open' and Word will be launched and your Worksheet will appear.

Worksheet

ON Semiconductor®

Application Worksheet

Customer	**ABC Electronics**	Customer Contact	**James Watt**
Program	**2012 Suburbanite**	Prepared by	
Application	**Consumer - Set Top Box**	Date Prepared	**8/17/2010**



'Worksheet' is automatically created. This is a fully editable Microsoft Word document. Page 1 is shown.

Header information and logos appear at the top of page 1.

Block diagram shows next.

Worksheet

Block	Part Types Used	Selected Parts
Audio Amp	Amplifiers & Comparators > Audio Amplifiers	NCP2890DMR2G
Audio Filter	EMI / RFI Filters > Audio Filters	NUF4220MNT1G
Audio Switch	Analog Switches > Audio Switches	NSS1153MUTAG
	Analog Switches > Data Switches	
Clock Generation	Clock Generation > Crystal Oscillators	
	Clock & Data Distribution > Drivers & Fanout Buffers	
	Clock Generation > Zero Delay Buffers	
	Clock Generation > PLL Clock Generators	NB3NB001DTR2G, NB3NB002DTR2G, NB3NB011DTR2G
Codec/ Modem	Clock Generation > PLL Clock Generators	
Voltage Regulation (Linear, Switching)	Voltage & Current Management > Voltage References	
	DC-DC Controllers, Converters, & Regulators > Controllers	
	DC-DC Controllers, Converters, & Regulators > Linear Voltage Regulators	
	Bipolar Transistors > Low $V_{CE(sat)}$ Transistors	
	DC-DC Controllers, Converters, & Regulators > Converters	
	IGBTs & FETs > MOSFETs	
	Voltage & Current Management > Voltage Protection	
I/O Interface	Voltage & Current Management > Voltage Supervisors	
I/O Protection	EMI / RFI Filters > Data Filters	
	Diodes & Rectifiers > ESD Protection Diodes & Arrays	
	Voltage & Current Management > Current Protection	
Input Amp	Amplifiers & Comparators > Operational Amplifiers	
Input Bridge Rectification	Diodes & Rectifiers > Rectifiers	
LCD Backlighting	Bipolar Transistors > General Purpose Transistors	
	IGBTs & FETs > Protected MOSFETs	
	Drivers > Display / LED Drivers	
	DC-DC Controllers, Converters, & Regulators > Linear Voltage Regulators	
	Image Sensors > Ambient Light Sensors	
	Diodes & Rectifiers > Schottky Diodes & Rectifiers	
	Bipolar Transistors > Low $V_{CE(sat)}$ Transistors	
	DC-DC Controllers, Converters, & Regulators > Converters	
	IGBTs & FETs > MOSFETs	

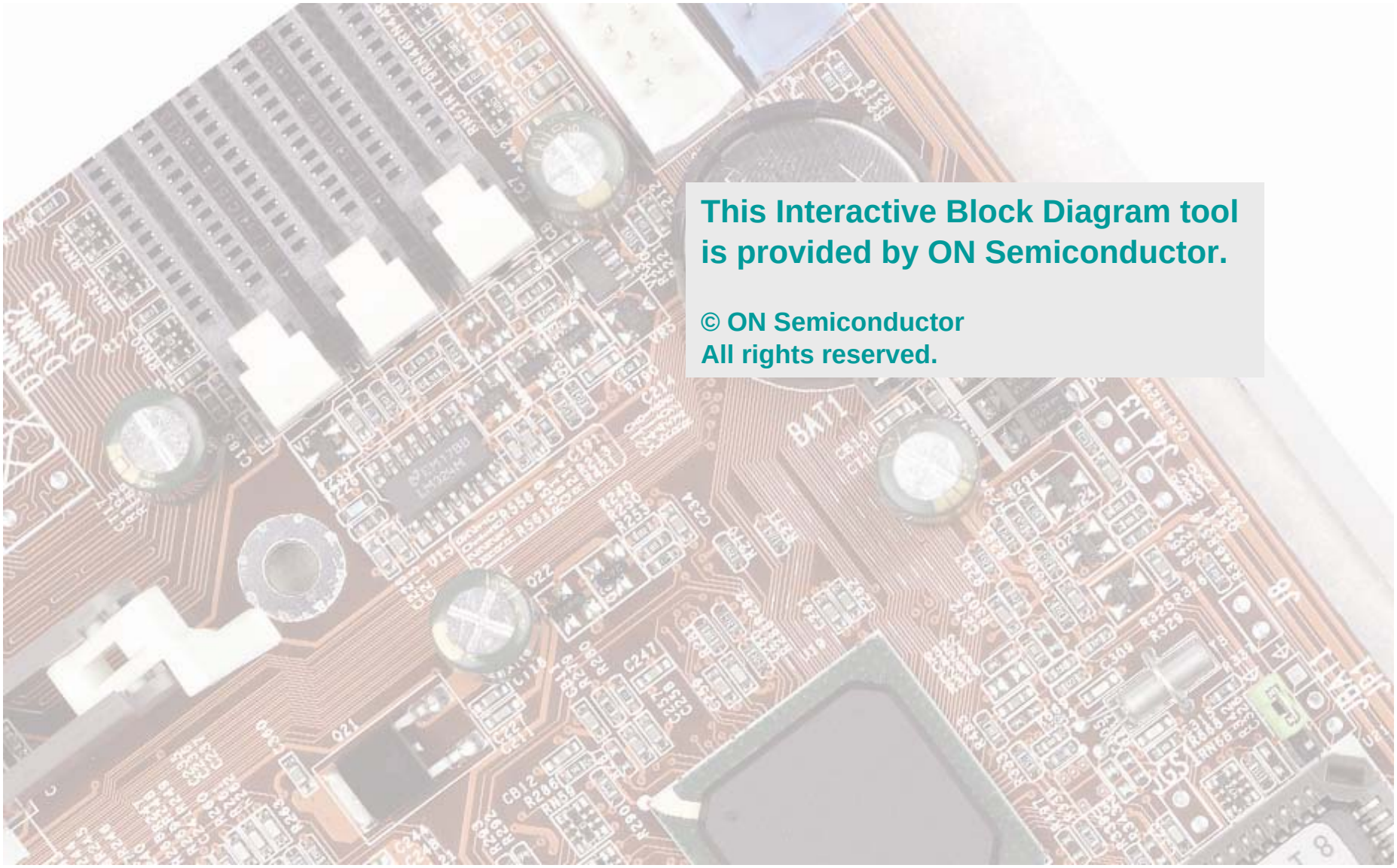
Notes

Block list with Selected Parts list appears on the next 1 or 2 pages.

Note each Selected Part has a hyperlink to its Web product page, providing easy access to datasheet and other information.

Notes section appears last. You may use this area as desired.

Applications Interactive Block Diagrams



This Interactive Block Diagram tool is provided by ON Semiconductor.