

Application Interactive Block Diagrams

System Selling Tool Training

ON Semiconductor®



Public Information

The interactive block diagrams are available to anyone who visits the "<u>www.onsemi.com</u>" web site. All users can:

- > 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 summary worksheet which contains a listing of devices that were selected for each block in the block diagram. Links to the datasheet are provided for each selected device.
- > Print the document, if desired.



By first signing in to "MyON" on the home page, sales, authorized distributors and internal ON Semiconductor employees may access other valuable features such as:

- > See sales program information directly on the device parametric page.
- > Customize your summary worksheet to include your company logo.
- > When these features are activated, the tool becomes the "System Selling Tool".

- SST -

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Signing in to MyON



ON Semiconductor Home Page





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Applications Home Page

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Applications ON Semiconductor provides a variety of application specific information, including Interactive block diagrams Vised' block diagrams, which show design examples Technical information Links to industry standards via other web sites Design and processing services information Interactive product recommendation tools	hoose your category of interest. For kample, lets go with "Consumer pplications".	
Automotive	Computing & Peripherals	Consumer
Industrial	LED Lighting	
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ON

Consumer Applications



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Block Diagram

Set Top Box



Worksheet

Build a customized product list to complete your design: (j)



N

Part Type Selection





Device Selection





Device Selection (continued)

	- C	Product	ts 🜔 Applic	ations	🜔 Desigi	n Suppo	rt 🜔 Al	out 🔉 My(ON: Viev	w Cart	Logout									
	A B T	Appli Bloci Taxoi	ication k: Cloc nomy:	n: S k G PLI	et Toj iener . Cloc	p Bo atio k G	ox on enei	rators										OR (to th any	Click here to returr le block diagram a time.	n t
		Add to	Worksheet	Wor stomize Data Sheet	e Table 👻 🔡 Compliance	See all Trans	devices i pose Table ON Targe	n this produc EXPORT Description	t family	Output Level	urn to S V _s Typ (V)	et Top B f _{in} Typ (MHz)	Sox Appl f _{out} Typ (MHz)	ication D t _{Jitter} (Cy- Cy) Typ	iagram • t _{Jitter} (Period) Typ (ps)	t _{Jitter} (Φ) Τγρ	Page s t _R & t _F Typ	size: 50 t _R & t _F Max) ▼ T _A M (°C	
-	CLICK the 'Add to Workshee button.	eť			∇		- 		- - -	- 	- 	- 	- 	(ps)	₽ 🔽	(ps)	(ps) 문 T	(ps)	7	
-	Your selections will be saved the creation of the final Worksheet and you will be returned to the block diagram complete the process for the	d for	B3N3002		Pb-free Halide free	Active	~	Clock Generator, PureEdge™, Crystal to 25 MHz, 100 MHz, 125 MHz, 200 MHz, 3.3 V, with Differential HCSL Outputs	CMOS	HCSL	3.135 3.465	25	25 (j) 100 125 200	2 🕦	1.5 (j)	0.25 🕦	340	700	-41	
	other blocks.		B3N3020		Pb-free Halide free	Active	√	Clock Multiplier, LVPECL / LVCMOS, Programmable,	CML () CMOS () ECL ()	ECL TTL	3.3	5-27	8-210	20 (j)	15 ①		340	700	-4	
		1	NB3N3020DTG		Pb-free Halide free	Active	√	Clock Multiplier, LVPECL / LVCMOS, Programmable, 3.3 V	CML (j) CMOS (j) ECL (j)	ECL	3.3	5-27	8-210	20 (j)	15 (j)		340	700		
		N	B3N3020DTR2G	-	Pb-free Halide free	Active	~	Clock Multiplier, LVPECL / LVCMOS, Programmable, 3.3 V	ECL (j) CMOS (j) CML (j)	TTL ECL	3.3	5-27	8-210	20 (Ì)	15 (j)		340	700	-4	
		•	NB3N502	1	Pb-free Halide free	Active	~	PLL Clock Multiplier, 14	CMOS Crystal	CMOS	3 5.5	2-50 (j) 5-27 (j)	14-190	±40	15 (j)		1000 (j)	1000 (j)		



Device Selection (continued)

Set Top Box









Finish Device Selections



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Public Information

Creating the Output Worksheet



"MyON".



Creating the Output Worksheet (continued)



Home > Applications > Consumer > Set Top Box > Worksheet

Application: Consumer - Set Top Box

(Customer (C	ompany)	ABC Electronics			
I	Program		2016 Space Rover			
(Customer Co	ontact	John Duggart			
S	Sales / Distri	ibutor Company Logo	none v	•		
	Keep All	Application Bloc	none Allied Electronics Altima Ammon & Rizos Ammon & Rizos Brazil	^	ict Taxonomy	Part
	st.	Clock Generation	Arrow Arrow Northern Europe		ock Generators	NB3N3020
For example, lets go Digi-Key	with	I/O Protection (<3 Gb I/O Protection (<3 Gb	Astec Avnet Bear VAI Technology Britestone	j	ion > EMI Filters ion > EMI Filters	EMI804X NUF4402MN
	 ✓ 	I/O Filter	Caelera CEAC Chip1Stop	j	ion > EMI Filters > Video Amplifiers	NUF8001MU NCS2561
		Reference/Error Ampl	Daiwa Digi-Key		ators > Secondary Side Controllers	NCP4353
	Create	Reference/Error Ampl	e-Components EBV Elektronik Electec Farnell	-	ators > Secondary Side Controllers	NCP4355





Creating the Output Worksheet (continued)



Home > Applications > Consumer > Set Top Box > Worksheet

Application: Consumer - Set Top Box

Customer (Company)	ABC Electronics
Program	2016 Space Rover
Customer Contact	John Duggart
Sales / Distributor Company Logo	Digi-Key 🔻

 When done, CLICK on "Create Worksheet" button present at the bottom of the table.

Keep All	Application Block	pplication Block Product Taxonomy	
•	Clock Generation	Clock Generation > PLL Clock Generators	NB3N3020
¥	I/O Protection (<3 Gbits/s)	ESD, EMI, & Surge Protection > EMI Filters	EMI804X
•	I/O Protection (<3 Gbits/s)	ESD, EMI, & Surge Protection > EMI Filters	NUF4402MN
	I/O Protection (<3 Gbits/s)	ESD, EMI, & Surge Protection > EMI Filters	NUF8001MU
•	Video Filter	Amplifiers & Comparators > Video Amplifiers	NCS2561
¥	Reference/Error Amplifier	AC-DC Controllers & Regulators > Secondary Side Controllers	NCP4353
•	Reference/Error Amplifier	AC-DC Controllers & Regulators > Secondary Side Controllers	NCP4355
Create	Worksheet 🛛 뒚 Clear Works	sheet 🚠 Return to diagram	



Worksheet

- When you have either opened or saved the worksheet on your device, it should look something like this.





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

 The worksheet is automatically created and it is a fully editable Microsoft Word document.



(23/04/2018) Application worksheet for

page 1 o



Worksheet (continued)

Audio Switch	Interfaces > Analog Switches	
Clock Generation	Clock & Data Distribution >	
	Drivers & Fanout Buffers	
	Clock Generation > Zero Delay	
	Buffers	
	Clock Generation > PLL Clock	NB3N3020
	Generators	
Codec/Modem	Clock Generation > PLL Clock	
,,	Generators	
Voltage Regulation (Linear,	AC-DC Controllers & Regulators	
Switching)	> Offline Controllers	
0,	DC-DC Controllers, Converters, &	
	Regulators > Controllers	
	DC-DC Controllers, Converters, &	
	Regulators > Converters	
	DC-DC Controllers, Converters, &	
	Regulators > LDO Regulators &	
	Linear Voltage Regulators	
I/O Interface	Light & Touch Sensors > Touch	
,	Sensors	
	ESD, EMI, & Surge Protection >	
	ESD Protection Diodes	
	Voltage & Current Management	
	> Voltage Protection	
I/O Protection (<3 Gbits/s)	ESD, EMI, & Surge Protection >	EMI804X NUF4402MN
	EMI Filters	NUF8001MU
	Standard Logic > Bus	
	Transceivers	
	ESD, EMI, & Surge Protection >	
	ESD Protection Diodes	
	Voltage & Current Management	
	> Current Protection	
	Voltage & Current Management	
	> Voltage Protection	
Input Amp	Amplifiers & Comparators >	
	Operational Amplifiers (Op	
	Amps)	
Input Bridge Rectification	Diodes & Rectifiers > Rectifiers	
LCD Backlighting	Light & Touch Sensors >	
	Ambient Light Sensors	
	Bipolar Junction Transistors	
	(BJT) > General Purpose and	
	Low VCE(sat) Transistors	
	LED Drivers > DC-DC LED	
	Drivers	

 Note that each selected part has a hyperlink to its web product page, providing easy access to datasheet and other information.

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page 2 of 4



Worksheet (continued)

	DC-DC Controllers, Converters, &	
	Regulators > Converters	
	LED Drivers > Linear LED	
	Drivers	
	Diodes & Rectifiers > Schottky	
	Diodes & Schottky Rectifiers	
Output Rectification/Sync	Diodes & Rectifiers > Rectifiers	
Rect		
	IGBTs & FETs > MOSFETs	
	Diodes & Rectifiers > Schottky	
	Diodes & Schottky Rectifiers	
Power Factor Correction	Diodes & Rectifiers > Rectifiers	
	AC-DC Controllers & Regulators	
	> Power Factor Controllers	
	IGBTs & FETs > MOSFETs	
Reference/Error Amplifier	AC-DC Controllers & Regulators	NCP4353 NCP4355
	> Secondary Side Controllers	
	Voltage & Current Management	
	> Voltage References	
Smart Card Interface	Interfaces > Smart Card & SIM	
	Card Interfaces	
Supervisory	Voltage & Current Management	
	> Voltage Supervisors	
Tuner	Bipolar Junction Transistors	
	(BJT) > MMICs, RF	
Video Amp	Amplifiers & Comparators >	
	Video Amplifiers	
Video Filter	Amplifiers & Comparators >	NCS2561
	Video Amplifiers	
Voltage Regulation	AC-DC Controllers & Regulators	
(Switching)	> Offline Controllers	
	AC-DC Controllers & Regulators	
	> Offline Regulators	
	DC-DC Controllers, Converters, &	
	Regulators > Controllers	
	DC-DC Controllers, Converters, &	
	Regulators > Converters	
	IGBTs & FETs > MOSFETs	
Processor	DC-DC Controllers, Converters, &	
	Regulators > LDO Regulators &	
	Linear Voltage Regulators	
Line Protection	Voltage & Current Management	
	> Load Switches	
Memory	Memory > Flash Memory	

Memory > EEPROM Memory	
Memory > SRAM Memory	
ESD, EMI, & Surge Protection >	
EMI Filters	
ESD, EMI, & Surge Protection >	
ESD Protection Diodes	
	Memory > EEPROM Memory Memory > SRAM Memory ESD, EMI, & Surge Protection > EMI Filters ESD, EMI, & Surge Protection > ESD Protection Diodes

Notes

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

(23/04/2018) Application worksheet for

page 3 of 4

page 4 of 4



Interactive Block Diagrams / SST

- > Total time required to create a worksheet is 5 15 minutes, typically.
- Locate ON Semiconductor product offerings for specific applications or create proposals for customers.
- > Device information in each block diagram and parametric table is updated daily.
- > Only "Active" and "Product Preview" RTM devices are listed.
- > Be sure to sign in to "MyON" to get all features (Sales Programs, Logos, etc.)!



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