

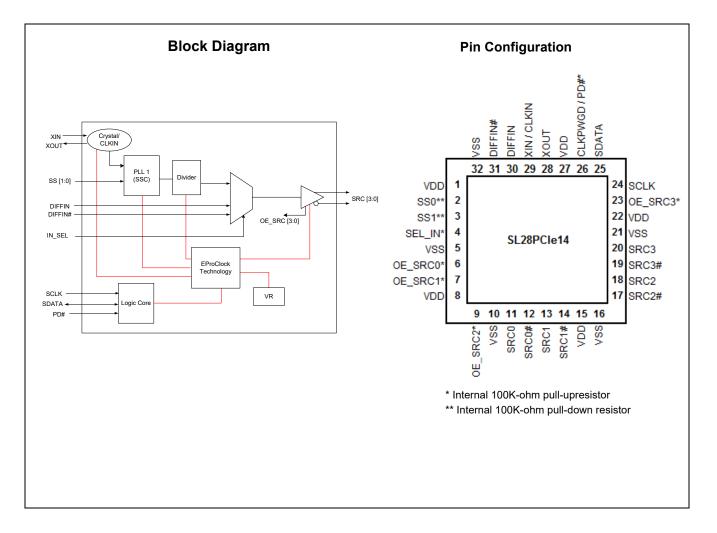
SL28PCIe14

PCI-Express Gen 2 & Gen 3 Clock Generator & Fan-out Buffer with EProClock® Technology

Features

- PCI-Express Gen 2 & Gen 3 Compliant
- · Low power push-pull type differential output buffers
- · Integrated resistors on differential clocks
- HW Selectable Buffered Input or crystal synthesizer mode
- · Dedicated Output Enable pin for all clocks
- HW Selectable Frequency and Spread Control

- Four PCI-Express Gen2 & Gen 3 Clocks
- 25MHz Crystal Input or Clock input
- EProClock[®] Programmable Technology
- I²C support with readback capabilities
- Triangular Spread Spectrum profile for maximum electromagnetic interference (EMI) reduction
- Industrial Temperature -40°C to 85°C
- 3.3V Power supply
- 32-pin QFN package



1



32-QFN Pin Definitions

Pin No.	Name	Туре	Description					
1	VDD	PWR	3.3V Power Sup	ply				
2	SS0**	I, PD			efault SS[1:0] =00.			
3	SS1**	I, PD	(internal 100K-ol	hm pull-dow	n)			
			SS1	SS0	Frequency	Spread	Note	
			0	0	100M	OFF	Default	
			0	1	100M	-0.5%		
			1	0	100M	-/+0.25		
			1	1	100M	-0.75%		
			MID	0	125MHz	OFF		
			MID	1	200MHz	OFF		
4	IN_SEL*	I, PU	3.3V input to sele	ect between	crystal input or external n-out Buffer mode	differential b	uffer input mode	
					switching is not glitchle	ss)		
5	VSS	GND	Ground					
6	OE SRC0*	I,PU	3.3V input to ena	abled SRC0	clock. (internal 100K-c	hm pull-up)		
7	 OE_SRC1*	I,PU	•		clock. (internal 100K-c	1 17		
8	VDD	PWR	3.3V Power Supply					
9	OE_SRC2*	I,PU	3.3V input to enabled SRC2 clock. (internal 100K-ohm pull-up)					
10	VSS	GND	Ground					
11	SRC0	O, DIF	100MHz True dif	ferential ser	ial reference clock			
12	SRC0#	O, DIF	100MHz Comple	ment differe	ential serial reference c	lock		
13	SRC1	O, DIF	100MHz True dif	ferential ser	ial reference clock			
14	SRC1#	O, DIF	100MHz Comple	ement differe	ential serial reference c	lock		
15	VDD	PWR	3.3V Power Sup	ply				
16	VSS	GND	Ground					
17	SRC2#	O, DIF	100MHz Comple	ement differe	ential serial reference c	lock		
18	SRC2	O, DIF	100MHz True dif	ferential ser	ial reference clock			
19	SRC3#	O, DIF	100MHz Comple	ement differe	ential serial reference c	lock		
20	SRC3	O, DIF	100MHz True dif	ferential ser	ial reference clock			
21	VSS	GND	Ground					
22	VDD	PWR	3.3V Power Sup	ply				
23	OE_SRC3*	I,PU	3.3V input to ena	abled SRC3	clock. (internal 100K-c	hm pull-up)		
24	SCLK	I	SMBus compatit	ole SCLOCK	ζ.			
25	SDATA	I/O	SMBus compatit	ole SDATA				
26	CKPWRGD/PD#*	I,PU	3.3V LVTTL input. This pin is a level sensitive strobe used to latch the SS[1:0]. After CKPWRGD (active HIGH) assertion, this pin becomes a real-time input for asserting power down (active LOW)					
27	VDD	PWR	R 3.3V Power Supply					
28	XOUT	0	25.00MHz Cryst	al output, <i>Fl</i>	oat XOUT if using only	CLKIN (Cloc	:k input)	
29	XIN / CLKIN		25.00MHz Crystal input or 3.3V, 25MHz Clock Input					
30	DIFFIN	I	True differential	serial refere	nce clock input			
31	DIFFIN#	I	Complement diff	erential seri	al reference clock			
32	VSS	GND	Ground					



EProClock[®] Programmable Technology

EProClock[®] is the world's first non-volatile programmable clock. The EProClock[®] technology allows board designer to promptly achieve optimum compliance and clock signal integrity; historically, attainable typically through device and/or board redesigns.

 $\mathsf{EProClock}^{\textcircled{R}}$ technology can be configured through SMBus or hard coded.

Features:

- > 4000 bits of configurations

- Can be configured through SMBus or hard coded
- Custom frequency sets
- Differential skew control on true or compliment or both
- Differential duty cycle control on true or compliment or both
- Differential amplitude control
- Differential and single-ended slew rate control
- Program Internal or External series resistor on single-ended clocks
- Program different spread profiles
- Program different spread modulation rate

SS1	SS0	Frequency (MHz)	Spread (%)	Note
0	0	100.00	OFF	Default Value for SS [1:0] =00
0	1	100.00	- 0.5	
1	0	100.00	+/- 0.25	
1	1	100.00	- 0.75	
MID	0	125	OFF	
MID	1	200	OFF	

Frequency/Spread Select Pin (SS[1:0])

Frequency/Spread Select Pin SS[1:0]

Apply the appropriate logic levels to SS [1:0] inputs before CKPWRGD assertion to achieve clock frequency selection. When the clock chip sampled HIGH on CKPWRGD and indicates that the voltage is stable then SS [1:0] input values are sampled. This process employs a one-shot functionality and once the CKPWRGD sampled a valid HIGH, all other SS[1:0], and CKPWRGD transitions are ignored.

Serial Data Interface

To enhance the flexibility and function of the clock synthesizer, a two-signal serial interface is provided. Through the Serial Data Interface, various device functions, such as individual clock output buffers are individually enabled or disabled. The registers associated with the Serial Data Interface initialize to their default setting at power-up. The use of this interface is optional. Clock device register changes are normally made at system initialization, if any are required. The interface cannot be used during system operation for power management functions.

Data Protocol

The clock driver serial protocol accepts byte write, byte read, block write, and block read operations from the controller. For block write/read operation, access the bytes in sequential order from lowest to highest (most significant bit first) with the ability to stop after any complete byte is transferred. For byte write and byte read operations, the system controller can access individually indexed bytes. The offset of the indexed byte is encoded in the command code described in *Table 1*.

The block write and block read protocol is outlined in *Table 2* while *Table 3* outlines byte write and byte read protocol. The slave receiver address is 11010010 (D2h).

Table 1. Command Code Definition

Bit	Description
7	0 = Block read or block write operation, 1 = Byte read or byte write operation
(6:0)	Byte offset for byte read or byte write operation. For block read or block write operations, these bits should be '0000000'

Table 2. Block Read and Block Write Protocol

	Block Write Protocol	Block Read Protocol		
Bit	Description	Bit	Description	
1	Start	1	Start	
8:2	Slave address–7 bits	8:2	Slave address–7 bits	

Skyworks Solutions, Inc. • Phone [781] 376-3000 • Fax [781] 376-3100 • sales@skyworksinc.com • www.skyworksinc.com 3 Rev. 0.2 • Skyworks Proprietary Information • Products and Product Information are Subject to Change Without Notice • September 5, 2021



Table 2. Block Read and Block Write Protocol (Continued)

	Block Write Protocol		Block Read Protocol
Bit	Description	Bit	Description
9	Write	9	Write
10	Acknowledge from slave	10	Acknowledge from slave
18:11	Command Code–8 bits	18:11	Command Code–8 bits
19	Acknowledge from slave	19	Acknowledge from slave
27:20	Byte Count–8 bits	20	Repeat start
28	Acknowledge from slave	27:21	Slave address–7 bits
36:29	Data byte 1–8 bits	28	Read = 1
37	Acknowledge from slave	29	Acknowledge from slave
45:38	Data byte 2–8 bits	37:30	Byte Count from slave–8 bits
46	Acknowledge from slave	38	Acknowledge
	Data Byte /Slave Acknowledges	46:39	Data byte 1 from slave–8 bits
	Data Byte N–8 bits	47	Acknowledge
	Acknowledge from slave	55:48	Data byte 2 from slave–8 bits
	Stop	56	Acknowledge
			Data bytes from slave / Acknowledge
			Data Byte N from slave–8 bits
			NOT Acknowledge
			Stop

Table 3. Byte Read and Byte Write Protocol

	Byte Write Protocol		Byte Read Protocol
Bit	Description	Bit	Description
1	Start	1	Start
8:2	Slave address–7 bits	8:2	Slave address–7 bits
9	Write	9	Write
10	Acknowledge from slave	10	Acknowledge from slave
18:11	Command Code–8 bits	18:11	Command Code–8 bits
19	Acknowledge from slave	19	Acknowledge from slave
27:20	Data byte–8 bits	20	Repeated start
28	Acknowledge from slave	27:21	Slave address–7 bits
29	Stop	28	Read
		29	Acknowledge from slave
		37:30	Data from slave–8 bits
		38	NOT Acknowledge
		39	Stop



Control Registers

Byte 0: Control Register 0

Bit	@Pup	Туре	Name	Description
7	0	R/W	RESERVED	RESERVED
6	0	R/W	RESERVED	RESERVED
5	0	R/W	RESERVED	RESERVED
4	0	R/W	RESERVED	RESERVED
3	0	R/W	RESERVED	RESERVED
2	0	R/W	RESERVED	RESERVED
1	0	R/W	RESERVED	RESERVED
0	0	R/W	RESERVED	RESERVED

Byte 1: Control Register 1

Bit	@Pup	Туре	Name	Description
7	0	R/W	RESERVED	RESERVED
6	0	R/W	RESERVED	RESERVED
5	0	R/W	RESERVED	RESERVED
4	0	R/W	RESERVED	RESERVED
3	0	R/W	RESERVED	RESERVED
2	1	R/W	SRC0_OE	Output enable for SRC0 0 = Output Disabled, 1 = Output Enabled
1	0	R/W	RESERVED	RESERVED
0	1	R/W	SRC1_OE	Output enable for SRC1 0 = Output Disabled, 1 = Output Enabled

Byte 2: Control Register 2

Bit	@Pup	Туре	Name	Description
7	1	R/W	SRC2_OE	Output enable for SRC2 0 = Output Disabled, 1 = Output Enabled
6	1	R/W	SRC3_OE	Output enable for SRC3 0 = Output Disabled, 1 = Output Enabled
5	0	R/W	RESERVED	RESERVED
4	0	R/W	RESERVED	RESERVED
3	0	R/W	RESERVED	RESERVED
2	0	R/W	RESERVED	RESERVED
1	0	R/W	RESERVED	RESERVED
0	0	R/W	RESERVED	RESERVED

Byte 3: Control Register 3

Bit	@Pup	Туре	Name	Description
7	0	R	Rev Code Bit 3	Revision Code Bit 3
6	0	R	Rev Code Bit 2	Revision Code Bit 2
5	0	R	Rev Code Bit 1	Revision Code Bit 1
4	0	R	Rev Code Bit 0	Revision Code Bit 0
3	1	R	Vendor ID bit 3	Vendor ID Bit 3
2	0	R	Vendor ID bit 2	Vendor ID Bit 2
1	0	R	Vendor ID bit 1	Vendor ID Bit 1
0	0	R	Vendor ID bit 0	Vendor ID Bit 0

Skyworks Solutions, Inc. • Phone [781] 376-3000 • Fax [781] 376-3100 • sales@skyworksinc.com • www.skyworksinc.com 5 Rev. 0.2 • Skyworks Proprietary Information • Products and Product Information are Subject to Change Without Notice • September 5, 2021



Byte 4: Control Register 4

Bit	@Pup	Туре	Name	Description
7	0	R/W	BC7	Byte count register for block read operation.
6	0	R/W	BC6	The default value for Byte count is 7. In order to read beyond Byte 7, the user should change the byte
5	0	R/W	BC5	count limit.to or beyond the byte that is desired to be read.
4	0	R/W	BC4	
3	0	R/W	BC3	
2	1	R/W	BC2	
1	1	R/W	BC1	
0	1	R/W	BC0	

Byte 5: Control Register 5

Bit	@Pup	Туре	Name	Description
7	1	R/W	RESERVED	RESERVED
6	1	R/W	SRC_AMP2	SRC amplitude adjustment
5	0	R/W	SRC_AMP1	000= 300mV, 001=400mV, 010=500mV, 011= 600mV 100= 700mV, 101=800mV, 110=900mV, 111= 1000mV
4	1	R/W	SRC_AMP0	
3	1	R/W	RESERVED	RESERVED
2	0	R/W	RESERVED	RESERVED
1	0	R/W	RESERVED	RESERVED
0	0	R/W	RESERVED	RESERVED

OE[3:0] Assertion

All differential outputs that were stopped are to resume normal operation in a glitch-free manner. The maximum latency from the assertion to active outputs is between 2 and 6 clocks of the internal reference clock with all differential outputs resuming simultaneously. All stopped differential outputs must be driven HIGH within 10 ns of OE deassertion to a voltage greater than 200 mV.

OE[3:0] Deassertion

The impact of deasserting the OE pins is that all SRC outputs that are set in the control registers to stoppable via deassertion of OE are to be stopped after their next transition. The final state of all stopped SRC clocks is Low/Low.

PD# (Power down) Clarification

The CKPWRGD/PD# pin is a dual-function pin. During initial power up, the pin functions as CKPWRGD. Once CKPWRGD has been sampled HIGH by the clock chip, the pin assumes PD# functionality. The PD# pin is an asynchronous active LOW input used to shut off all clocks cleanly before shutting off power to the device. This signal is synchronized internally to the device before powering down the clock synthesizer. PD# is also an asynchronous input for powering up the system. When PD# is asserted LOW, clocks are driven to a LOW value and held before turning off the VCOs and the crystal oscillator.

PD# (Power down) Assertion

When PD# has been sampled LOW by the internal reference clock all differential clocks will be stopped in a glitch-free mannter to the LOW-LOW state within their next two consecutive rising edges.

PD# Deassertion

The power up latency will be less than 2ms for crystal input reference and less than 8ms for differential input reference clock. This is the delay from the power supply reaching the minimum value specified in the datasheet, until the time that the part is ready to sample any latched inputs on the first rising edge of CLKPWRGD.

After the first rising edge on the CKPWRGD this pin becmoes PD#. After a valid rising edge on CKPWRGD/PD# pin, a time of not more than 1.8ms is allowed for the clock device's internal PLL's to power up and lock. After this time, all outputs are enabled in a glitch-free manner within a few clock cycles of each clock.



Absolute Maximum Conditions

Parameter	Description	Condition	Min.	Max.	Unit	
V _{DD_3.3V}	Main Supply Voltage	Functional	-	4.6	V	
V _{IN}	Input Voltage	Relative to V _{SS}	-0.5	4.6	V_{DC}	
Τ _S	Temperature, Storage	Non-functional	-65	150	°C	
T _A	Industrial Temperature, Operating Ambient	Functional	-40	85	°C	
T _A	Commercial Temperature, Operating Ambient	Functional	0	85	°C	
TJ	Temperature, Junction	Functional	-	150	°C	
Ø _{JC}	Dissipation, Junction to Case	JEDEC (JESD 51)	-	20	°C/ W	
Ø _{JA}	Dissipation, Junction to Ambient	JEDEC (JESD 51)	-	60	°C/ W	
ESD _{HBM}	ESD Protection (Human Body Model)	JEDEC (JESD 22 - A114)	2000	_	V	
UL-94	Flammability Rating	UL (Class)	V-0			

Multiple Supplies: The Voltage on any input or I/O pin cannot exceed the power pin during power-up. Power supply sequencing is NOT required.

DC Electrical Specifications

Parameter Description		Condition	Min.	Max.	Unit
VDD core	3.3V Operating Voltage	3.3 ± 5%	3.135	3.465	V
V _{IH}	3.3V Input High Voltage (SE)		2.0	V _{DD} + 0.3	V
V _{IL}	3.3V Input Low Voltage (SE)		$V_{SS} - 0.3$	0.8	V
V _{IHI2C}	Input High Voltage	SDATA, SCLK	2.2	-	V
V _{ILI2C}	Input Low Voltage	SDATA, SCLK	_	1.0	V
V _{IH_SS[1:0]_HIGH}	SS Input High Voltage		0.7	VDD+0.3	V
V _{IH_SS[1:0]_MID}	SS Input MIDVoltage		0.7	1.5	V
V _{IL_SS[1:0]_LOW}	SS Input Low Voltage		$V_{SS} - 0.3$	0.35	V
I _H	Input High Leakage Current	Except internal pull-down resistors, 0 < V _{IN} < V _{DD}	-	5	μA
I _{IL}	Input Low Leakage Current	Except internal pull-up resistors, 0 < V _{IN} < V _{DD}	-5	-	μA
V _{OH}	3.3V Output High Voltage (SE)	I _{OH} = –1 mA	2.4	-	V
V _{OL}	3.3V Output Low Voltage (SE)	I _{OL} = 1 mA	_	0.4	V
I _{OZ}	High-impedance Output Current		-10	10	μA
C _{IN}	Input Pin Capacitance		1.5	5	pF
C _{OUT}	Output Pin Capacitance			6	pF
L _{IN}	Pin Inductance		_	7	nH
IDD_PD	Power Down Current		-	1	mA
I _{DD_3.3V}	Dynamic Supply Current in synthesizer mode	Differential clocks with 5" traces and 2pF load, frequency at 100MHz.	-	50	mA
I _{DD_3.3V}	Dynamic Supply Current in fanout mode	Differential clocks with 5" traces and 2pF load, frequency at 100MHz.	-	30	mA

7



AC Electrical Specifications

Parameter	Description	Condition	Min.	Max.	Unit
Crystal	•	· · · · · · · · · · · · · · · · · · ·		•	
L _{ACC}	Long-term Accuracy	Measured at VDD/2 differential	_	250	ppm
Clock Input	·	·			
T _{DC}	CLKIN Duty Cycle	Measured at VDD/2	47	53	%
T _R /T _F	CLKIN Rise and Fall Times	Measured between $0.2V_{DD}$ and $0.8V_{DD}$	0.5	4.0	V/ns
T _{CCJ}	CLKIN Cycle to Cycle Jitter (Sythesizer)	Measured at VDD/2	_	250	ps
T _{LTJ}	CLKIN Long Term Jitter	Measured at VDD/2	_	350	ps
V _{IH}	Input High Voltage	XIN / CLKIN pin	2	VDD+0.3	V
V _{IL}	Input Low Voltage	XIN / CLKIN pin	_	0.8	V
IIH	Input HighCurrent	XIN / CLKIN pin, VIN = VDD	-	35	uA
IIL	Input LowCurrent	XIN / CLKIN pin, 0 < VIN <0.8	-35	-	uA
SRC at 0.7V	•				
T _{DC}	Duty Cycle	Measured at 0V differential	45	55	%
RMS _{GEN1}	Output PCIe* Gen1 REFCLK phase jitter	BER = 1E-12 (including PLL BW 8 - 16 MHz, ζ = 0.54, Td=10 ns, Ftrk=1.5 MHz)	0	108	ps
RMS _{GEN2}	Output PCIe* Gen2 REFCLK phase jitter	Includes PLL BW 8 - 16 MHz, Jitter Peaking = 3dB, ζ = 0.54, Td=10 ns), Low Band, F < 1.5MHz	0	3.0	ps
RMS _{GEN2}	Output PCIe* Gen2 REFCLK phase jitter	Includes PLL BW 8 - 16 MHz, Jitter Peaking = 3dB, ζ = 0.54, Td=10 ns), Low Band, F < 1.5MHz	0	3.1	ps
RMS _{GEN3}	Output phase jitter impact – PCIe* Gen3	Includes PLL BW 2 - 4 MHz, CDR = 10MHz)	0	1.0	ps
T _{CCJ}	Cycle to Cycle Jitter Measured at 0V differential		_	85	ps
T _{CCJ}	Additive Cycle to Cycle Jitter	In buffer mode. Measured at 0V differential	-	50	ps
L _{ACC}	Long-term Accuracy	Measured at 0V differential	-	100	ppm
T _R /T _F	Rising/Falling Slew rate Measured differentially from ±150 mV		2.5	8	V/ns
V _{OX}	Crossing Point Voltage at 0.7V Swing	-	300	550	mV
	ABLE and SET-UP			<u>.</u>	
T _{STABLE}	Clock Stabilization from Power-up		_	1.8	ms
T _{SS}	Stopclock Set-up Time		10.0	_	ns



Test and Measurement Set-up

For Differential Clock Signals

This diagram shows the test load configuration for the differential clock signals

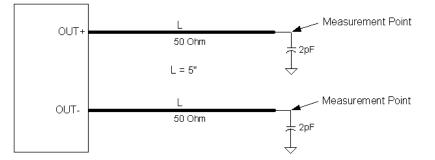


Figure 1. 0.7V Differential Load Configuration

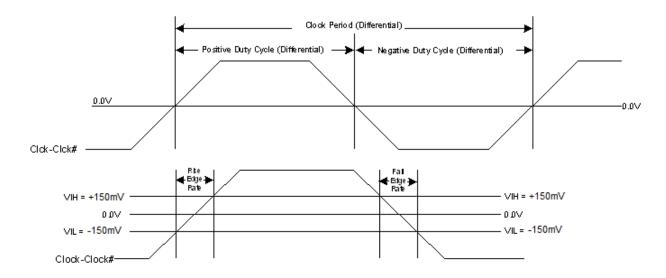


Figure 2. Differential Measurement for Differential Output Signals (for AC Parameters Measurement)





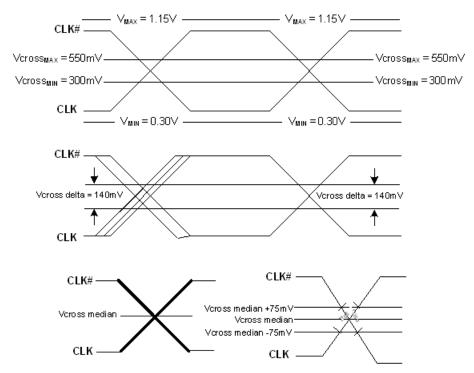


Figure 3. Single-ended Measurement for Differential Output Signals (for AC Parameters Measurement)

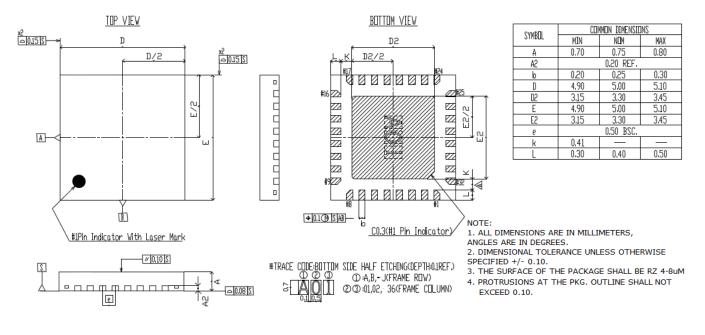


Ordering Information

Part Number	Package Type	Product Flow
Lead-free		
SL28PCIe14ALC	32-pin QFN	Commercial, 0° to 85°C
SL28PCIe14ALCT	32-pin QFN – Tape and Reel	Commercial, 0° to 85°C
SL28PCIe14ALI	32-pin QFN	Industrial, -40° to 85°C
SL28PCIe14ALIT	32-pin QFN – Tape and Reel	Industrial, -40° to 85°C

Package Diagrams

32-Lead QFN 5x 5mm





Document History Page

Document Title: SL28PCIe14 PC Low-Power Clock Generator for Intel [®] Ultra Mobile Platform DOC #: SP-AP-0078 (Rev. 1.0)				
REV.	ECR#	Issue Date	Orig. of Change	Description of Change
AA	1695	02/09/11	JMA	Initial Release

SKYWORKS

ClockBuilder Pro

Customize Skyworks clock generators, jitter attenuators and network synchronizers with a single tool. With CBPro you can control evaluation boards, access documentation, request a custom part number, export for in-system programming and more!

www.skyworksinc.com/CBPro



C

Portfolio www.skyworksinc.com/ia/timing

www.skyworksinc.com/CBPro



Quality www.skyworksinc.com/quality



Support & Resources www.skyworksinc.com/support

Copyright © 2021 Skyworks Solutions, Inc. All Rights Reserved.

Information in this document is provided in connection with Skyworks Solutions, Inc. ("Skyworks") products or services. These materials, including the information contained herein, are provided by Skyworks as a service to its customers and may be used for informational purposes only by the customer. Skyworks assumes no responsibility for errors or omissions in these materials or the information contained herein. Skyworks may change its documentation, products, services, specifications or product descriptions at any time, without notice. Skyworks makes no commitment to update the materials or information and shall have no responsibility whatsoever for conflicts, incompatibilities, or other difficulties arising from any future changes.

No license, whether express, implied, by estoppel or otherwise, is granted to any intellectual property rights by this document. Skyworks assumes no liability for any materials, products or information provided hereunder, including the sale, distribution, reproduction or use of Skyworks products, information or materials, except as may be provided in Skyworks' Terms and Conditions of Sale.

THE MATERIALS, PRODUCTS AND INFORMATION ARE PROVIDED "AS IS" WITHOUT WARRANTY OF ANY KIND, WHETHER EXPRESS, IMPLIED, STATUTORY, OR OTHERWISE, INCLUDING FITNESS FOR A PARTICULAR PURPOSE OR USE, MERCHANTABILITY, PERFORMANCE, QUALITY OR NON-INFRINGEMENT OF ANY INTELLECTUAL PROPERTY RIGHT; ALL SUCH WARRANTIES ARE HEREBY EXPRESSLY DISCLAIMED. SKYWORKS DOES NOT WARRANT THE ACCURACY OR COMPLETENESS OF THE INFORMATION, TEXT, GRAPHICS OR OTHER ITEMS CONTAINED WITHIN THESE MATERIALS. SKYWORKS SHALL NOT BE LIABLE FOR ANY DAMAGES, INCLUDING BUT NOT LIMITED TO ANY SPECIAL, INDIRECT, INCIDENTAL, STATUTORY, OR CONSEQUENTIAL DAMAGES, INCLUDING WITHOUT LIMITATION, LOST REVENUES OR LOST PROFITS THAT MAY RESULT FROM THE USE OF THE MATERIALS OR INFORMATION, WHETHER OR NOT THE RECIPIENT OF MATERIALS HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Skyworks products are not intended for use in medical, lifesaving or life-sustaining applications, or other equipment in which the failure of the Skyworks products could lead to personal injury, death, physical or environmental damage. Skyworks customers using or selling Skyworks products for use in such applications do so at their own risk and agree to fully indemnify Skyworks for any damages resulting from such improper use or sale.

Customers are responsible for their products and applications using Skyworks products, which may deviate from published specifications as a result of design defects, errors, or operation of products outside of published parameters or design specifications. Customers should include design and operating safeguards to minimize these and other risks. Skyworks assumes no liability for applications assistance, customer product design, or damage to any equipment resulting from the use of Skyworks products outside of Skyworks' published specifications or parameters.

Skyworks, the Skyworks symbol, Sky5[®], SkyOne[®], SkyBlue[™], Skyworks Green[™], Clockbuilder[®], DSPLL[®], ISOmodem[®], ProSLIC[®], and SiPHY[®] are trademarks or registered trademarks of Skyworks Solutions, Inc. or its subsidiaries in the United States and other countries. Third-party brands and names are for identification purposes only and are the property of their respective owners. Additional information, including relevant terms and conditions, posted at www.skyworksinc.com, are incorporated by reference.



X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Clock Generators & Support Products category:

Click to view products by Silicon Labs manufacturer:

Other Similar products are found below :

CV183-2TPAG 950810CGLF 9DBV0741AKILF 9VRS4420DKLF CY25404ZXI226 CY25422SXI-004 MPC9893AE NB3H5150-01MNTXG PL602-20-K52TC ICS557GI-03LF PI6LC48P0101LIE 82P33814ANLG 840021AGLF ZL30244LFG7 PI6LC48C21LE ZL30245LFG7 PI6LC48P0405LIE PI6LC48P03LE MAX24505EXG+ 5L1503L-000NVGI8 ZL30673LFG7 MAX24188ETK2 ZL30152GGG2 5L1503-000NVGI8 PI6C557-01BZHIEX PI6LC48C21LIE CY2542QC002 5P35023-106NLGI 5X1503L-000NLGI8 ZL30121GGG2V2 ZL30282LDG1 ZL30102QDG1 ZL30159GGG2 DS1070K ZL30145GGG2 ZL30312GKG2 MAX24405EXG2 ZL30237GGG2 SY100EL34LZG 9FGV1002BQ506LTGI AD9518-4ABCPZ MX852BB0030 PI6LC4840ZHE AD9516-4BCPZ-REEL7 AD9516-0BCPZ-REEL7 AD9574BCPZ-REEL7 PL602-21TC-R ZL30105QDG1 ZL30100QDG1 ZL30142GGG2