



1. PIN DESCRIPTIONS

Pin Name	#	Pin Description
VD	1	Digital Power
GND	2	Ground
PLL_OUT	3	PLL Clock Output
AUX_OUT	4	AUX Output
CLK_IN	5	Clock Input
FILTP	6	LCO Filter Connections
FILTIN	7	
CLK/PLL	8	AUX Output Source Selection Input
M1	9	Mode Selection Inputs
M0	10	

See the CS2300-OTP datasheet for additional pin description information.

2. SPECIFICATIONS

Please see the CS2300-OTP datasheet for package information, device characteristics, and specifications except where noted due to specific programming options.

3. OPERATIONAL INFORMATION

Complete operational information can be found in the CS2300-OTP datasheet. Specific operational details dictated by the programming of the CS2300-03 are included below.

- The PLL clock output is forced to 0 when the PLL is unlocked, both upon loss of the CLK_IN signal or briefly when switching mode pin configurations.
- The minimum loop filter bandwidth once locked is 128 Hz.

4. CONFIGURATION INFORMATION

The CS2300-03 has been factory pre-programmed with a unique configuration. The following table outlines the specific configuration profile which can be compared to the CS2300-OTP datasheet for detailed functional descriptions.

OTP Modal and Global Configuration Parameters Form								
	Mode 0		Mode 1		Mode 2		Mode 3	
Ratio 0 (dec)	1		4		128		256	
Ratio 0 (hex)	00:10:00:00		00:40:00:00		08:00:00:00		10:00:00:00	
RModSel1	0		0		0		0	
RModSel0	0		0		0		0	
AuxOutSrc1	0		0		0		0	
AuxOutSrc0	1		1		1		1	
AutoRMod	0		0		0		0	
Global Configuration Set								
ClkSkipEn	AuxLockCfg	ClkOutUnl	LFRatioCfg	M2Cfg2	M2Cfg1	M2Cfg0		
0	0	0	1	1	1	1		
ClkIn_BW2	ClkIn_BW1	ClkIn_BW0						
1	1	1						

5. ORDERING INFORMATION

Product	Description	Package	Pb-Free	Grade	Temp Range	Container	Order#
CS2300-03	Clocking Device	10L-MSOP	Yes	Commercial	-10° to +70°C	Rail	CS230003-CZZ
						Tape and Reel	CS230003-CZZR
CDK-2000	Evaluation Platform	-	Yes	-	-	-	CDK-2000-LCO

6. REVISION HISTORY

Release	Changes
A1	Initial Release

Contacting Cirrus Logic Support

For all product questions and inquiries, contact a Cirrus Logic Sales Representative.

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