

Connor-Winfield's Timing IC's: Sync, Frequency Translation, Jitter

TIMING IC's : Sync, Frequency Translation, Jitter Attenuation and Multi Output Clock Generation	Model Number	Data Sheet PDFs	# Reference Inputs	Input Frequencies	# Analog PLL Chains	Total # Outputs	Output Frequencies	Fractional/ Integer	Phase Jitter 12kHz-20MHz	Footprint # of pins
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1PPS Time Synchronzation with Jitter Attenuation and Frequency Translation

Master clock, NPLL, NCO, hitless switching, phase align	NS3D02	(PDF)	2	1PPS	1	3	1PPS, 8k-156.25MHz	Integer	100fs, 250 fs	5x5mm QFN40
Master clock, NPLL, NCO, hitless switching, phase align	NS2D04-1PPS	(PDF)	3	1PPS, 1Hz-125MHz	2	18	1PPS, 1Hz-800MHz	Integer	100fs, 250 fs	8x8mm QFN68
Master clock, NPLL, NCO, hitless switching, phase align	NS2000-1PPS	(PDF)	1	1PPS, 1Hz-125MHz	2	23	1PPS, 1Hz-800MHz	Integer	100fs, 250 fs	10x10mm QFN88

PLL Frequency Translators

Jitter attenuating , 1 input 8/16 outputs	NF2004	(PDF)	1	8KHz-125 MHz	2	17	1.5KHz - 800 MHz	Integer	100fs, 250 fs	8x8mm QFN68
Jitter attenuating , 1 input, 1 output	NF1011	(PDF)	1	8KHz-125 MHz	1	1	10 MHz - 160 MHz	Integer	100fs, 250 fs	5x5mm QFN40

Clock Generator/Signal translator

Crystal or clock signal input, differential/ single ended	NC2008	(PDF)	2	10 MHz-160 MHz	2	17	1.5 KHz - 800 MHz	Integer	100fs, 250 fs	8x8mm QFN68
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PLL Frequency Translator with Auto Compensation

Compensates TSE 10MHz MCLK input, translates outputs	FT3C02	(PDF)	0	10 MHz	1	2	8KHz - 160 MHz	Integer	500 fs	5x5mm QFN40
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DAC with Auto Compensation

28 bit DAC with Auto-Compensation Capability	TDC210	(PDF)	1	5 MHz - 160 MHz	N/A	1	5 MHz - 160 MHz	N/A	N/A	5x5mm QFN40
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Full System Synchronization

Programmable bandwidth .25mH to 10 Hz, 1PPS support	NS2000	(PDF)	3	1PPS, 1Hz-125MHz	2	23	1PPS, 1Hz-800MHz	Integer	100fs, 1 ps	10x10mm QFN88
Programmable bandwidth .25mH to 10 Hz, 1PPS support	NS2004	(PDF)	3	1PPS, 1Hz-125MHz	2	18	1PPS, 1Hz-800MHz	Integer	100fs, 1 ps	8x8mm QFN68

Legacy Ics, Full System Synchronization

Full Stratum and Sync E compliance, 2 timing generators	STC5420	(PDF)	12	2KHz- 77.76MHz	0	8	2KHz -156.25MHz	Fractional	10 ps	TQFP 100
Master Slave, autonomous switching, programmable	STC5230	(PDF)	12	2KHz- 77.76MHz	0	8	2KHz -156.25MHz	Fractional	10 ps	TQFP 100
Complete Stratum 3E timing system	STC3800	(PDF)	4	2KHz- 77.76MHz	0	4	2KHz -77.76MHz	Fractional	10 ps	BGA144



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