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Россия +7(495)268-04-70

Казахстан +7(7172)727-132

Киргизия +996(312)96-26-47

эл.почта: agu@nt-rt.ru || сайт: <https://analog.nt-rt.ru/>

Clock and Data Recovery/Retiming

Parts	Description	Product Lifecycle	Data Rate Device min	Data Rate Device max	Vin Sensitivity typ	Jitter Generation mUI rms typ	Jitter Tolerance UI p-p typ	Jitter Transfer BW typ	Vsupply typ
ADN2905	CPRI and 10G Ethernet Data Recovery IC with AMP/EQ from 614.4 Mbps to 10.3125 Gbps	NOT RECOMMENDED FOR NEW DESIGNS	614M	10300M	200m	-	0.849 at 10GE	-	1.2V, 1.8V, 3.3V
ADN2917	Continuous Rate 8.5 Gbps to 11.3 Gbps Clock and Data Recovery IC with Integrated Limiting Amp/EQ	NOT RECOMMENDED FOR NEW DESIGNS	8500M	11300M	9.2m	4.5 @ OC192	3.78 at 400 kHz	1,064kHz @ OC192	1.2V, 1.8V, 3.3V
ADN2913	Continuous Rate 6.5 Mbps to 8.5 Gbps Clock and Data Recovery IC with Integrated Limiting Amp/EQ	NOT RECOMMENDED FOR NEW DESIGNS	6.5G	8.5G	22m	2.5 @ OC48	6.7 at 340kHz	663 kHz @ OC48	1.2V, 1.8V, 3.3V
ADN2855	Multirate 155 Mbps/622 Mbps/1244 Mbps/1250 Mbps Burst Mode Clock and Data Recovery IC with Deserializer	PRODUCTION	156M	1250M	100m	-	1.0 at 500 kHz	-	3.3V
ADN2805	1.25 Gbps Clock and Data Recovery IC	NOT RECOMMENDED FOR NEW DESIGNS	1250M	-	200m	1.0 @ OC12	0.75 at 637 kHz	-	3.3V
ADN2817	Continuous Rate 10 Mbps to 2.7 Gbps Clock and Data Recovery IC (With High Sensitivity Limiting Amp)	PRODUCTION	10M	2700M	5m	1.0 @ OC48	1.0 @ 1 MHz	548 kHz @ OC48	3.3V
ADN2818	Continuous Rate 10 Mbps to 2.7 Gbps Clock and Data Recovery IC	NOT RECOMMENDED FOR NEW DESIGNS	10M	2700M	200m	1.0 @ OC48	1.0 @ 1 MHz	548 kHz @ OC48	3.3V
ADN2812	Continuous Rate 12.3 Mb/s to 2.7 Gb/s Clock and Data Recovery IC with Integrated Limiting Amp	PRODUCTION	12M	2700M	6m	1.0 @ OC48	1.0 @ 1 MHz	490 kHz @ OC48	3.3V
ADN2804	622 Mbps Clock and Data Recovery IC with Integrated Limiting Amplifier	NOT RECOMMENDED FOR NEW DESIGNS	622M	-	3m	1.0 @ 250 kHz	1	75 kHz @ OC12	3.3V
ADN2806	622 Mbps Clock and Data Recovery IC	NOT RECOMMENDED FOR NEW DESIGNS	622M	-	200m	1.0 @ OC12	1.0 @ 250 kHz	75 kHz @ OC12	3.3V

	Description	Product Lifecycle	Data Rate Device min	Data Rate Device max	Vin typ Sensitivity	Jitter typ Generation mUI rms	Jitter typ Tolerance UI p-p	Jitter typ Transfer BW	Vsupply typ
ADN2816	Continuous Rate 10 Mb/s to 675 Mb/s Clock and Data Recovery IC	PRODUCTION	10M	675M	200m	1.0 @ OC12	1.0 @ 250 kHz	75 kHz @ OC12	3.3V
ADN2813	Continuous Rate 12.3 Mb/s to 1.25 Gb/s Clock and Data Recovery IC with Integrated Limiting Amp	NOT RECOMMENDED FOR NEW DESIGNS	10M	1250M	3.3m	1.0 @ OC12	0.75 at 637 kHz	75 kHz @ OC12	3.3V
ADN2815	Continuous Rate 10 Mb/s to 1.25 Gb/s Clock and Data Recovery IC	NOT RECOMMENDED FOR NEW DESIGNS	10M	1250M	200m	1.0 @ OC12	0.75 at 637 kHz	75 kHz @ OC12	3.3V
AD800	45 or 52 Mbps Clock and Data Recovery IC	NOT RECOMMENDED FOR NEW DESIGNS	45M	156M	2m	-	0.9 @ 65 kHz	52 kHz @ OC3	5V
DS26503	T1/E1/J1 BITS Element	PRODUCTION	1.544M	16.38M	-	-	-	-	-
AD807	155 Mbps, Low Power, Post-Amp/Clock and Data Recovery IC	NOT RECOMMENDED FOR NEW DESIGNS	156M	-	2m	-	1.0 @ 65 kHz	92 kHz @ OC3	5V
AD808	622 Mbps, Low Power, Post-Amp/Clock and Data Recovery IC	LAST TIME BUY	622M	-	4m	-	0.56 at 250 kHz	333 kHz @ OC12	5V
ADN2807	155/622 Mb/s Clock and Data Recovery IC with Integrated Limiting Amp	NOT RECOMMENDED FOR NEW DESIGNS	156M	622M	4m	3.0 @ OC12	1.0 @ 250 kHz	140 kHz @ OC12	3.3V
ADN2811	OC-48/OC-48 FEC Clock and Data Recovery	LAST TIME BUY	2488M	2666M	4m	3.0 @ OC48	1.0 @ 1 MHz	590 kHz @ OC48	3.3V
ADN2819	Multi Rate Limiting Amplifier and Clock and Data Recovery ICs	NOT RECOMMENDED FOR NEW DESIGNS	156M	2666M	4m	3.0 @ OC48	1.0 @ 1 MHz	590 kHz @ OC48	3.3V

Clock Generation and Distribution

Parts	Description	Product Lifecycle	Clock Function	# Outputs	Interface	On-Chip VCO or DCO	Output Frequency ^{max}	Output Logic	Comments
ADF4378	Microwave Wideband Synthesizer with Integrated VCO and Deterministic General-Purpose Pulse Retimer	RECOMMENDED FOR NEW DESIGNS	Delay, Generation	2	SPI	Yes	12.8G	CML, LVDS	Microwave Wideband Synthesizer with Integrated VCO and Deterministic GeneralPurpose Pulse Retimer
ADF4382A	2.87GHz to 21GHz Fractional-N PLL/VCO for High Performance Converter Clocking Applications	RECOMMENDED FOR NEW DESIGNS	Delay, Generation	2	-	Yes	21G	CML	Microwave Wideband Synthesizer with Integrated VCO
ADAR4002	0.5 GHz to 19 GHz Broadband Bi-Directional Single Channel True Time Delay Unit	RECOMMENDED FOR NEW DESIGNS	Time Delay	-	SPI	-	-	-	0.5 GHz to 19 GHz Broadband Bi-Directional Single Channel True Time Delay Unit
ADF4377	Microwave Wideband Synthesizer with Integrated VCO	RECOMMENDED FOR NEW DESIGNS	Delay, Generation	2	SPI	Yes	12.8G	CML	Microwave Wideband Synthesizer with Integrated VCO
AD9546	Dual DPLL Digitized Clock Synchronizer	RECOMMENDED FOR NEW DESIGNS	Generation, Signal Generator, Synchronization	10	I2C/SMBus, Serial, SPI	Yes	500M	CML, HCSL, LVDS	Dual DPLL Digitized Clock Synchronizer
LTC6955	Ultralow Jitter, 7.5GHz, 11 Output Fanout Buffer Family	LAST TIME BUY	Distribution	11	SPI	No	7.5G	CML	Ultralow Jitter, 7.5GHz, 11 Output Fanout Buffer Family
LTC6955-1	Ultralow Jitter, 7.5GHz, 11 Output Fanout Buffer Family	LAST TIME BUY	Distribution	11	SPI	No	7.5G	CML	Ultralow Jitter, 7.5GHz, 11 Output Fanout Buffer Family
LTC6952	Ultralow Jitter, 4.5GHz PLL with 11 Outputs and JESD204B / JESD204C Support	LAST TIME BUY	Generation, Synchronization	11	SPI	No	4.5G	CML	Ultralow Jitter, 4.5GHz PLL with 11 Outputs and JESD204B / JESD204C Support
AD9543	Quad Input, 10-Output, Dual DPLL/IEEE 1588 Synchronizer and Jitter Cleaner	RECOMMENDED FOR NEW DESIGNS	Generation, Synchronization	10	I2C/SMBus, Serial, SPI	Yes	500M	CML, HCSL, LVDS	Quad Input, 10-Output, Dual DPLL/IEEE 1588 Synchronizer and Jitter Cleaner
AD9544	Quad Input, 10-Output, Dual DPLL, 1 pps Synchronizer and Jitter Cleaner	RECOMMENDED FOR NEW DESIGNS	Generation, Synchronization	10	I2C/SMBus, Serial, SPI	Yes	500M	CML, HCSL, LVDS	Quad Input, 10-Output, Dual DPLL, 1 pps Synchronizer and Jitter Cleaner

	Description	Product Lifecycle	Clock Function	# Outputs	Interface	On-Chip VCO or DCO	Output Frequency ^{max}	Output Logic	Comments
AD9545	Quad Input, 10-Output, Dual DPLL/IEEE 1588, 1 pps Synchronizer and Jitter Cleaner	RECOMMENDED FOR NEW DESIGNS	Generation, Synchronization	10	I2C/SMBus, Serial, SPI	Yes	500M	CML, HCSL, LVDS	Quad Input, 10-Output, Dual DPLL/IEEE 1588, 1 pps Synchronizer and Jitter Cleaner
AD9576	Dual PLL, Asynchronous Clock Generator	RECOMMENDED FOR NEW DESIGNS	Distribution, Generation	11	I2C/SMBus, Pin Select, Serial, SPI	Yes	1.25G	CMOS, HCSL, HSTL, LVDS	Dual PLL, Asynchronous Clock Generator
AD9530	4 CML Output, Low Jitter Clock Generator with an Integrated 5.4 GHz VCO	RECOMMENDED FOR NEW DESIGNS	Generation	4	Serial	Yes	2.7G	CML	4 CML Output, Low Jitter Clock Generator with an Integrated 5.4 GHz VCO
LTC6951	Ultralow Jitter Multi-Output Clock Synthesizer with Integrated VCO	LAST TIME BUY	Distribution, Generation	5	SPI	Yes	2.5G	CML, LVDS	Ultralow Jitter Multi-Output Clock Synthesizer with Integrated VCO
LTC6951-1	Ultralow Jitter Multi-Output Clock Synthesizer with Integrated VCO	LAST TIME BUY	Distribution, Generation	5	SPI	Yes	2.7G	CML, LVDS	Ultralow Jitter Multi-Output Clock Synthesizer with Integrated VCO
HMC7043	High Performance, 3.2 GHz, 14-Output Fanout Buffer with JESD204B/JESD204C	RECOMMENDED FOR NEW DESIGNS	Distribution	14	SPI	No	3.2G	CML, LVCMOS, LVDS, LVPECL	High Performance, 3.2 GHz, 14-Output Fanout Buffer with JESD204B/JESD204C
AD9531	3-Channel Clock Generator, 24 Outputs	RECOMMENDED FOR NEW DESIGNS	Generation	24	Pin Select, SPI	Yes	400M	CMOS, HSTL, LVDS	3-Channel Clock Generator, 24 Outputs
LTC6954-1	Low Phase Noise, Triple Output Clock Distribution Divider/Driver	LAST TIME BUY	Distribution	3	SPI	No	1.4G	LVPECL	Low Phase Noise, Triple Output Clock Distribution Divider/Driver, Three LVPECL outputs
LTC6954-2	Low Phase Noise, Triple Output Clock Distribution Divider/Driver	LAST TIME BUY	Distribution	3	SPI	No	1.4G	LVPECL	Low Phase Noise, Triple Output Clock Distribution Divider/Driver, Two LVPECL and one LVDS/CMOS
LTC6954-3	Low Phase Noise, Triple Output Clock Distribution Divider/Driver	LAST TIME BUY	Distribution	3	SPI	No	1.4G	LVPECL	Low Phase Noise, Triple Output Clock Distribution Divider/Driver, One LVPECL and two LVDS/CMOS outp

	Description	Product Lifecycle	Clock Function	# Outputs	Interface	On-Chip VCO or DCO	Output Frequency ^{max}	Output Logic	Comments
LTC6954-4	Low Phase Noise, Triple Output Clock Distribution Divider/Driver	LAST TIME BUY	Distribution	3	SPI	No	1.4G	LVPECL	Low Phase Noise, Triple Output Clock Distribution Divider/Driver, Three LVDS/CMOS outputs
HMC7044	High Performance, 3.2 GHz, 14-Output Jitter Attenuator with JESD204B	RECOMMENDED FOR NEW DESIGNS	Generation	14	SPI	Yes	3.2G	CML, LVCMOS, LVDS, LVPECL	High Performance, 3.2 GHz, 14-Output Jitter Attenuator with JESD204B
ADCLK925S	Aerospace Ultrafast SiGe ECL Clock/Data Buffers	RECOMMENDED FOR NEW DESIGNS	Distribution	2	-	No	6G	ECL, LVPECL, PECL	Ultrafast SiGe ECL Clock/Data Buffers
AD9528	JESD204B/JESD204C Clock Generator with 14 LVDS/HSTL Outputs	RECOMMENDED FOR NEW DESIGNS	Generation	14	I2C/SMBus, Serial, SPI	Yes	1.25G	HSTL, LVDS	JESD204B/JESD204C Clock Generator with 14 LVDS/HSTL Outputs
AD9578	Dual PLL Precision Synthesizer	LAST TIME BUY	Generation	4	Serial, SPI	Yes	919M	HCSL, LVCMOS, LVDS, LVPECL	Dual PLL Precision Synthesizer
AD9574	Ethernet/Gigabit Ethernet Clock Generator	RECOMMENDED FOR NEW DESIGNS	Generation	7	Pin Select	Yes	312.5M	CMOS, HCSL, HSTL, LVDS	Ethernet/Gigabit Ethernet Clock Generator
AD9554-1	Quad PLL, Quad Input, Multiservice Line Card Adaptive Clock Translator	RECOMMENDED FOR NEW DESIGNS	Synchronization	4	I2C/SMBus, Serial, SPI	Yes	941M	HCSL, LVDS, LVPECL	Quad PLL, Quad Input, Multiservice Line Card Adaptive Clock Translator
AD9554	Quad PLL, Quad Input, 8-output Multiservice Line Card Adaptive Clock Translator	RECOMMENDED FOR NEW DESIGNS	Synchronization	8	I2C/SMBus, Serial, SPI	Yes	941M	HCSL, LVDS, LVPECL	Quad PLL, Quad Input, 8-output Multiservice Line Card Adaptive Clock Translator
LTC6957-1	Low Phase Noise, Dual Output Buffer/Driver/Logic Converter	LAST TIME BUY	Clock Buffer	2	-	No	300M	LVPECL	Low Phase Noise, Dual Output Buffer/Driver/Logic Converter, LVPECL Logic Outputs

	Description	Product Lifecycle	Clock Function	# Outputs	Interface	On-Chip VCO or DCO	Output Frequency ^{max}	Output Logic	Comments
LTC6957-2	Low Phase Noise, Dual Output Buffer/Driver/Logic Converter	LAST TIME BUY	Clock Buffer	2	-	No	300M	LVDS	Low Phase Noise, Dual Output Buffer/Driver/Logic Converter, LVDS Logic Outputs
LTC6957-3	Low Phase Noise, Dual Output Buffer/Driver/Logic Converter	LAST TIME BUY	Clock Buffer	2	-	No	300M	CMOS	Low Phase Noise, Dual Output Buffer/Driver/Logic Converter, CMOS Logic, In-Phase Outputs
LTC6957-4	Low Phase Noise, Dual Output Buffer/Driver/Logic Converter	LAST TIME BUY	Clock Buffer	2	-	No	300M	CMOS	Low Phase Noise, Dual Output Buffer/Driver/Logic Converter, CMOS Logic, Complementary Outputs
AD9508	1.65 GHz Clock Fanout Buffer with Output Dividers and Delay Adjust	RECOMMENDED FOR NEW DESIGNS	Distribution	4	I2C/SMBus, Pin Select, Serial	No	1.65G	CMOS, HSTL, LVDS	1.65 GHz Clock Fanout Buffer with Output Dividers and Delay Adjust
MAX31180	Spread-Spectrum Crystal Multiplier	PRODUCTION	Spread-Spectrum Crystal Multiplier	1	Pin Select	No	134M	LVC MOS	Spread-Spectrum Crystal Multiplier
AD9525	Low Jitter Clock Generator Eight LVPECL Outputs	RECOMMENDED FOR NEW DESIGNS	Generation	8	Serial, SPI	No	3.6G	CMOS, LVPECL	Low Jitter Clock Generator Eight LVPECL Outputs
AD9559	Dual PLL Quad Input Multiservice Line Card Adaptive Clock Translator	RECOMMENDED FOR NEW DESIGNS	Synchronization	4	I2C/SMBus, Serial, SPI	Yes	1.25G	HSTL, LVDS	Dual PLL Quad Input Multiservice Line Card Adaptive Clock Translator
AD9557	Dual-Input Multiservice Line Card Adaptive Clock Translator	RECOMMENDED FOR NEW DESIGNS	Synchronization	2	I2C/SMBus, Pin Select, Serial, SPI	Yes	1.25G	CMOS, HSTL, LVDS	Dual-Input Multiservice Line Card Adaptive Clock Translator
AD9558	Quad Input Multiservice Line Card Adaptive Clock Translator with Frame Sync	RECOMMENDED FOR NEW DESIGNS	Synchronization	6	I2C/SMBus, Pin Select, Serial, SPI	Yes	1.25G	CMOS, HSTL, LVDS	Quad Input Multiservice Line Card Adaptive Clock Translator with Frame Sync
AD9577	Clock Generator with Dual PLLs, Spread Spectrum, and Margining	RECOMMENDED FOR NEW DESIGNS	Generation	4	I2C/SMBus	Yes	637.5M	CMOS, LVDS, LVPECL	Clock Generator with Dual PLLs, Spread Spectrum, and Margining

	Description	Product Lifecycle	Clock Function	# Outputs	Interface	On-Chip VCO or DCO	Output Frequency ^{max}	Output Logic	Comments
AD9523-1	Low Jitter Clock Generator with 14 LVPECL/LVDS/HSTL/29 LVC MOS Outputs	RECOMMENDED FOR NEW DESIGNS	Generation	14	I2C/SMBus, Serial, SPI	Yes	1G	HSTL, LVCMOS, LVDS, LVPECL	Low Jitter Clock Generator with 14 LVPECL/LVDS/HSTL/29 LVC MOS Outputs
AD9550	Integer-N Clock Translator for Wireline Communications	RECOMMENDED FOR NEW DESIGNS	Generation	2	Pin Select	Yes	810M	CMOS, LVDS, LVPECL	Integer-N Clock Translator for Wireline Communications
AD9523	14-Output, Low Jitter Clock generator	NOT RECOMMENDED FOR NEW DESIGNS	Generation	14	I2C/SMBus, Serial, SPI	Yes	1G	HSTL, LVCMOS, LVDS, LVPECL	14-Output, Low Jitter Clock generator
AD9524	6 Output, Dual Loop Clock Generator	NOT RECOMMENDED FOR NEW DESIGNS	Generation	6	I2C/SMBus, Serial, SPI	Yes	1G	HSTL, LVCMOS, LVDS, LVPECL	6 Output, Dual Loop Clock Generator
ADN4670	Programmable Low Voltage 1:10 LVDS Clock Driver	PRODUCTION	Distribution	10	Serial	No	1.1G	LVDS	Programmable Low Voltage 1:10 LVDS Clock Driver
ADCLK944	2.5 V/3.3 V, Four LVPECL Outputs, SiGe Clock Fanout Buffer	RECOMMENDED FOR NEW DESIGNS	Distribution	4	Serial	No	7G	LVPECL	2.5 V/3.3 V, Four LVPECL Outputs, SiGe Clock Fanout Buffer
AD9575	Network Clock Generator, Two Outputs	RECOMMENDED FOR NEW DESIGNS	Generation	2	Pin Select, Serial	Yes	312.5M	LVCMOS, LVDS, LVPECL	Network Clock Generator, Two Outputs
AD9553	Flexible Clock Translator for GPON, Base Station, SONET/SDH, T1/E1, and Ethernet	RECOMMENDED FOR NEW DESIGNS	Generation	2	Pin Select, Serial, SPI	Yes	810M	CMOS, LVDS, LVPECL	Flexible Clock Translator for GPON, Base Station, SONET/SDH, T1/E1, and Ethernet
AD9571	Ethernet Clock Generator, 10 Clock Outputs	RECOMMENDED FOR NEW DESIGNS	Generation	10	Pin Select, Serial	Yes	156.25M	CMOS, LVDS, LVPECL	Ethernet Clock Generator, 10 Clock Outputs

	Description	Product Lifecycle	Clock Function	# Outputs	Interface	On-Chip VCO or DCO	Output Frequency ^{max}	Output Logic	Comments
AD9572	Fiber Channel/Ethernet Clock Generator IC, PLL Core, Dividers, 7 Clock Outputs	RECOMMENDED FOR NEW DESIGNS	Generation	7	Pin Select, Serial	Yes	156.25M	CMOS, LVDS, LVPECL	Fiber Channel/Ethernet Clock Generator IC, PLL Core, Dividers, 7 Clock Outputs
ADCLK948	Two Selectable Inputs, 8 LVPECL Outputs SiGe Clock Fanout Buffer	RECOMMENDED FOR NEW DESIGNS	Distribution	8	Pin Select, Serial	No	4.8G	LVPECL	Two Selectable Inputs, 8 LVPECL Outputs SiGe Clock Fanout Buffer
AD9547	Dual/Quad Input Network Clock Generator/Synchronizer	RECOMMENDED FOR NEW DESIGNS	Synchronization	2	I2C/SMBus, Serial, SPI	Yes	725M	CMOS, LVDS, LVPECL	Dual/Quad Input Network Clock Generator/Synchronizer
ADCLK950	Two Selectable Inputs, 10 LVPECL Outputs, SiGe Clock Fanout Buffer	RECOMMENDED FOR NEW DESIGNS	Distribution	10	Pin Select, Serial	No	4.8G	LVPECL	Two Selectable Inputs, 10 LVPECL Outputs, SiGe Clock Fanout Buffer
AD9573	PCI-Express Clock Generator IC, PLL Core, Dividers, Two Outputs	RECOMMENDED FOR NEW DESIGNS	Generation	2	LVDS, Pin Select	Yes	100M	LVC MOS, LVDS	PCI-Express Clock Generator IC, PLL Core, Dividers, Two Outputs
ADCLK846	1.8 V, 6 LVDS/12 CMOS Outputs Low Power Clock Fanout Buffer	RECOMMENDED FOR NEW DESIGNS	Distribution	6	Pin Select	No	1.2G	CMOS, LVDS	1.8 V, 6 LVDS/12 CMOS Outputs Low Power Clock Fanout Buffer
ADCLK946	Six LVPECL Outputs, SiGe Clock Fanout Buffer	RECOMMENDED FOR NEW DESIGNS	Distribution	6	Pin Select	No	4.8G	LVPECL	Six LVPECL Outputs, SiGe Clock Fanout Buffer
AD9548	Quad/Octal Input Network Clock Generator/Synchronizer	RECOMMENDED FOR NEW DESIGNS	Synchronization	8	Serial	Yes	450M	CMOS, LVDS, LVPECL	Quad/Octal Input Network Clock Generator/Synchronizer
ADCLK854	1.8 V, 12-LVDS/24-CMOS Output, Low Power Clock Fanout Buffer	RECOMMENDED FOR NEW DESIGNS	Distribution	12	Pin Select	No	1.2G	CMOS, LVDS	1.8 V, 12-LVDS/24-CMOS Output, Low Power Clock Fanout Buffer
ADCLK954	Two Selectable Inputs, 12 LVPECL Outputs, SiGe Clock Fanout Buffer	RECOMMENDED FOR NEW DESIGNS	Distribution	12	Pin Select	No	4.8G	LVPECL	Two Selectable Inputs, 12 LVPECL Outputs, SiGe Clock Fanout Buffer
AD9516-5	14-Output Clock Generator	RECOMMENDED FOR NEW DESIGNS	Generation	14	Serial, SPI	No	2.4G	CMOS, LVDS, LVPECL	14-Output Clock Generator

	Description	Product Lifecycle	Clock Function	# Outputs	Interface	On-Chip VCO or DCO	Output Frequency ^{max}	Output Logic	Comments
AD9520-5	12 LVPECL/24 CMOS Output Clock Generator	RECOMMENDED FOR NEW DESIGNS	Generation	24	I2C/SMBus, SPI	No	2.4G	CMOS, LVPECL	12 LVPECL/24 CMOS Output Clock Generator
AD9522-5	12 LVDS/24 CMOS Output Clock Generator	RECOMMENDED FOR NEW DESIGNS	Generation	24	I2C/SMBus, SPI	No	800M	CMOS, LVDS	12 LVDS/24 CMOS Output Clock Generator
AD9522-1	12 LVDS/24 CMOS Output Clock Generator with Integrated 2.4 GHz VCO	RECOMMENDED FOR NEW DESIGNS	Generation	24	I2C/SMBus, SPI	Yes	800M	CMOS, LVDS	12 LVDS/24 CMOS Output Clock Generator with Integrated 2.4 GHz VCO
AD9522-2	12 LVDS/24 CMOS Output Clock Generator with Integrated 2.2 GHz VCO	RECOMMENDED FOR NEW DESIGNS	Generation	24	I2C/SMBus, SPI	Yes	800M	CMOS, LVDS	12 LVDS/24 CMOS Output Clock Generator with Integrated 2.2 GHz VCO
AD9522-3	12 LVDS/24 CMOS Output Clock Generator with Integrated 2 GHz VCO	RECOMMENDED FOR NEW DESIGNS	Generation	24	I2C/SMBus, SPI	Yes	800M	CMOS, LVDS	12 LVDS/24 CMOS Output Clock Generator with Integrated 2 GHz VCO
AD9522-4	12 LVDS/24 CMOS Output Clock Generator with Integrated 1.6 GHz VCO	RECOMMENDED FOR NEW DESIGNS	Generation	24	I2C/SMBus, Serial, SPI	Yes	800M	CMOS, LVDS	12 LVDS/24 CMOS Output Clock Generator with Integrated 1.6 GHz VCO
AD9552	Oscillator Frequency Up Converter	RECOMMENDED FOR NEW DESIGNS	Generation	2	Pin Select, Serial, SPI	Yes	900M	CMOS, LVDS, LVPECL	Oscillator Frequency Up Converter
AD9520-1	12 LVPECL/24 CMOS Output Clock Generator with Integrated 2.5 GHz VCO	RECOMMENDED FOR NEW DESIGNS	Generation	24	I2C/SMBus, SPI	Yes	2.4G	CMOS, LVPECL	12 LVPECL/24 CMOS Output Clock Generator with Integrated 2.5 GHz VCO
AD9520-2	12 LVPECL/24 CMOS Output Clock Generator with Integrated 2.2 GHz VCO	RECOMMENDED FOR NEW DESIGNS	Generation	24	I2C/SMBus, SPI	Yes	2.4G	CMOS, LVPECL	12 LVPECL/24 CMOS Output Clock Generator with Integrated 2.2 GHz VCO
AD9551	Multiservice Clock Generator	LAST TIME BUY	Generation	2	Pin Select, Serial	Yes	900M	CMOS, LVDS, LVPECL	Multiservice Clock Generator

	Description	Product Lifecycle	Clock Function	# Outputs	Interface	On-Chip VCO or DCO	Output Frequency ^{max}	Output Logic	Comments
AD9520-0	12 LVPECL/24 CMOS Output Clock Generator with Integrated 2.8 GHz VCO	RECOMMENDED FOR NEW DESIGNS	Generation	24	I2C/SMBus, SPI	Yes	2.4G	CMOS, LVPECL	12 LVPECL/24 CMOS Output Clock Generator with Integrated 2.8 GHz VCO
AD9520-3	12 LVPECL/24 CMOS Output Clock Generator with Integrated 2 GHz VCO	RECOMMENDED FOR NEW DESIGNS	Generation	24	I2C/SMBus, SPI	Yes	2.4G	CMOS, LVPECL	12 LVPECL/24 CMOS Output Clock Generator with Integrated 2 GHz VCO
AD9520-4	12 LVPECL/24 CMOS Output Clock Generator with Integrated 1.6 GHz VCO	RECOMMENDED FOR NEW DESIGNS	Generation	24	I2C/SMBus, SPI	Yes	2.4G	CMOS, LVPECL	12 LVPECL/24 CMOS Output Clock Generator with Integrated 1.6 GHz VCO
ADCLK914	Ultrafast, SiGe, Open-Collector HVDS Clock/Data Buffer	RECOMMENDED FOR NEW DESIGNS	Buffer	1	-	No	7.5G	CML, HVDS	Ultrafast, SiGe, Open-Collector HVDS Clock/Data Buffer
AD9516-0	14-Output Clock Generator with Integrated 2.8 GHz VCO	RECOMMENDED FOR NEW DESIGNS	Generation	14	Serial, SPI	Yes	2.95G	CMOS, LVDS, LVPECL	14-Output Clock Generator with Integrated 2.8 GHz VCO
AD9516-1	14-Output Clock Generator with Integrated 2.5 GHz VCO	RECOMMENDED FOR NEW DESIGNS	Generation	14	Serial, SPI	Yes	2.95G	CMOS, LVDS, LVPECL	14-Output Clock Generator with Integrated 2.5 GHz VCO
AD9516-2	14-Output Clock Generator with Integrated 2.2 GHz VCO	RECOMMENDED FOR NEW DESIGNS	Generation	14	Serial, SPI	Yes	2.95G	CMOS, LVDS, LVPECL	14-Output Clock Generator with Integrated 2.2 GHz VCO
AD9516-3	14-Output Clock Generator with Integrated 2.0 GHz VCO	RECOMMENDED FOR NEW DESIGNS	Generation	14	Serial, SPI	Yes	2.95G	CMOS, LVDS, LVPECL	14-Output Clock Generator with Integrated 2.0 GHz VCO
AD9516-4	14-Output Clock Generator with Integrated 1.6 GHz VCO	RECOMMENDED FOR NEW DESIGNS	Generation	14	Serial, SPI	Yes	2.95G	CMOS, LVDS, LVPECL	14-Output Clock Generator with Integrated 1.6 GHz VCO
AD9517-0	12-Output Clock Generator with Integrated 2.8 GHz VCO	RECOMMENDED FOR NEW DESIGNS	Generation	12	Serial, SPI	Yes	2.95G	CMOS, LVDS, LVPECL	12-Output Clock Generator with Integrated 2.8 GHz VCO

	Description	Product Lifecycle	Clock Function	# Outputs	Interface	On-Chip VCO or DCO	Output Frequency ^{max}	Output Logic	Comments
AD9517-1	12-Output Clock Generator with Integrated 2.5 GHz VCO	RECOMMENDED FOR NEW DESIGNS	Generation	12	Serial, SPI	Yes	2.95G	CMOS, LVDS, LVPECL	12-Output Clock Generator with Integrated 2.5 GHz VCO
AD9517-2	12-Output Clock Generator with Integrated 2.2 GHz VCO	RECOMMENDED FOR NEW DESIGNS	Generation	12	Serial, SPI	Yes	2.95G	CMOS, LVDS, LVPECL	12-Output Clock Generator with Integrated 2.2 GHz VCO
AD9517-3	12-Output Clock Generator with Integrated 2.0 GHz VCO	RECOMMENDED FOR NEW DESIGNS	Generation	12	Serial, SPI	Yes	2.95G	CMOS, LVDS, LVPECL	12-Output Clock Generator with Integrated 2.0 GHz VCO
AD9517-4	12-Output Clock Generator with Integrated 1.6 GHz VCO	RECOMMENDED FOR NEW DESIGNS	Generation	12	Serial, SPI	Yes	2.95G	CMOS, LVDS, LVPECL	12-Output Clock Generator with Integrated 1.6 GHz VCO
AD9518-0	6-Output Clock Generator with Integrated 2.8 GHz VCO	RECOMMENDED FOR NEW DESIGNS	Generation	6	Serial, SPI	Yes	2.95G	LVPECL	6-Output Clock Generator with Integrated 2.8 GHz VCO
AD9518-1	6-Output Clock Generator with Integrated 2.5 GHz VCO	RECOMMENDED FOR NEW DESIGNS	Generation	6	Serial, SPI	Yes	2.95G	LVPECL	6-Output Clock Generator with Integrated 2.5 GHz VCO
AD9518-2	6-Output Clock Generator with Integrated 2.2 GHz VCO	RECOMMENDED FOR NEW DESIGNS	Generation	6	Serial, SPI	Yes	2.95G	LVPECL	6-Output Clock Generator with Integrated 2.2 GHz VCO
AD9518-3	6-Output Clock Generator with Integrated 2.0 GHz VCO	RECOMMENDED FOR NEW DESIGNS	Generation	6	Serial, SPI	Yes	2.95G	LVPECL	6-Output Clock Generator with Integrated 2.0 GHz VCO
AD9518-4	6-Output Clock Generator with Integrated 1.6 GHz VCO	RECOMMENDED FOR NEW DESIGNS	Generation	6	Serial, SPI	Yes	2.95G	LVPECL	6-Output Clock Generator with Integrated 1.6 GHz VCO
AD9549	Dual Input Network Clock Generator/Synchronizer	RECOMMENDED FOR NEW DESIGNS	Synchronization	2	Serial, SPI	Yes	725M	CMOS, HSTL	Dual Input Network Clock Generator/Synchronizer
ADCLK905	Ultrafast SiGe ECL Clock/Data Buffers	RECOMMENDED FOR NEW DESIGNS	Buffer	1	-	No	6G	ECL, LVPECL, PECL	Ultrafast SiGe ECL Clock/Data Buffers

	Description	Product Lifecycle	Clock Function	# Outputs	Interface	On-Chip VCO or DCO	Output Frequency ^{max}	Output Logic	Comments
ADCLK907	Ultrafast SiGe ECL Clock/Data Buffers	RECOMMENDED FOR NEW DESIGNS	Buffer	2	-	No	6G	ECL, LVPECL, PECL	Ultrafast SiGe ECL Clock/Data Buffers
ADCLK925	Ultrafast SiGe ECL Clock/Data Buffers	RECOMMENDED FOR NEW DESIGNS	Distribution	2	-	No	6G	ECL, LVPECL, PECL	Ultrafast SiGe ECL Clock/Data Buffers
DS1124	5.0V 8-Bit Programmable Timing Element	PRODUCTION	Time Delay	1	3-Wire	-	-	-	5.0V 8-Bit Programmable Timing Element
AD9540	Low Jitter, DDS-based Clock Generator and Synthesizer	RECOMMENDED FOR NEW DESIGNS	Generation	1	Serial, SPI	No	655M	CML	Low Jitter, DDS-based Clock Generator and Synthesizer
DS1080L	Spread-Spectrum Crystal Multiplier	PRODUCTION	Spread-Spectrum Crystal Multiplier	1	Pin Select	No	134M	LVC MOS	Spread-Spectrum Crystal Multiplier
AD9513	800 MHz Clock Distribution IC, Dividers, Delay Adjust, Three Outputs	RECOMMENDED FOR NEW DESIGNS	Distribution	3	Pin Select	No	800M	CMOS, LVDS	800 MHz Clock Distribution IC, Dividers, Delay Adjust, Three Outputs
AD9515	1.6 GHz Clock Distribution IC, Dividers, Delay Adjust, Two Outputs	RECOMMENDED FOR NEW DESIGNS	Distribution	2	Pin Select	No	1.6G	CMOS, LVDS, LVPECL	1.6 GHz Clock Distribution IC, Dividers, Delay Adjust, Two Outputs
AD9514	1.6 GHz Clock Distribution IC, Dividers, Delay Adjust, Three Outputs	RECOMMENDED FOR NEW DESIGNS	Distribution	3	Pin Select	No	1.6G	CMOS, LVDS, LVPECL	1.6 GHz Clock Distribution IC, Dividers, Delay Adjust, Three Outputs
AD9510	1.2 GHz Clock Distribution IC, PLL Core, Dividers, Delay Adjust, Eight Outputs	RECOMMENDED FOR NEW DESIGNS	Generation	8	Serial, SPI	No	1.2G	CMOS, LVDS, LVPECL	1.2 GHz Clock Distribution IC, PLL Core, Dividers, Delay Adjust, Eight Outputs
AD9511	1.2 GHz Clock Distribution IC, PLL Core, Dividers, Delay Adjust, Five Outputs	RECOMMENDED FOR NEW DESIGNS	Generation	5	Serial, SPI	No	1.2G	CMOS, LVDS, LVPECL	1.2 GHz Clock Distribution IC, PLL Core, Dividers, Delay Adjust, Five Outputs
AD9512	1.2 GHz Clock Distribution IC, Two 1.6 GHz Inputs, Dividers, Delay Adjust, Five Outputs	RECOMMENDED FOR NEW DESIGNS	Generation	5	Serial, SPI	No	1.2G	CMOS, LVDS, LVPECL	1.2 GHz Clock Distribution IC, Two 1.6 GHz Inputs, Dividers, Delay Adjust, Five Outputs

	Description	Product Lifecycle	Clock Function	# Outputs	Interface	On-Chip VCO or DCO	Output Frequency ^{max}	Output Logic	Comments
AD2S99	Programmable Oscillator	PRODUCTION	Programmable Oscillator	1	-	-	20k	-	Programmable Oscillator
MAX3841	12.5Gbps, CML, 2 x 2 Crosspoint Switch	NOT RECOMMENDED FOR NEW DESIGNS	Switch	2	-	No	12.5G	CML	12.5Gbps CML 2 x 2 Crosspoint Switch
MAX9392	Anything-to-LVDS Dual 2 x 2 Crosspoint Switches	PRODUCTION	Switch	4	3.3V LVTTTL/LVCMOS Compatible	No	1.5G	LVDS	Anything-2-LVDS Dual 2x2 Crosspoint Switches
MAX9393	Anything-to-LVDS Dual 2 x 2 Crosspoint Switches	PRODUCTION	Switch	4	3.3V LVTTTL/LVCMOS Compatible	No	1.5G	LVDS	Anything-2-LVDS Dual 2x2 Crosspoint Switches
MAX9394	2:1 Multiplexers and 1:2 Demultiplexers with Loopback	PRODUCTION	Demultiplexer, Multiplexer	3	-	No	3G	LVDS	2:1 Multiplexers and 1:2 Demultiplexers with Loopback with Input Low Level Fail Safe Detection
MAX9390	Anything-to-LVDS Dual 2 x 2 Crosspoint Switches	PRODUCTION	Switch	4	3.3V LVTTTL/LVCMOS Compatible	No	1.5G	LVDS	Anything-2-LVDS Dual 2x2 Crosspoint Switches
MAX9176	670MHz, LVDS-to-LVDS and Anything-to-LVDS, 2:1 Multiplexers	PRODUCTION	Multiplexer	1	-	No	800M	LVDS	670 MHz LVDS to LVDS 2:1 mux
MAX9389	Differential 8:1 ECL/PECL Multiplexer with Dual Output Buffers	PRODUCTION	Multiplexer	2	-	No	-	ECL, LVECL, LVPECL, PECL	Differential 8:1 ECL/PECL Mux with Dual Output Buffers
MAX9388	Differential 5:1 or 4:1 ECL/PECL Multiplexers with Single/Dual Output Buffers	PRODUCTION	Multiplexer	1	-	No	-	ECL, LVECL, LVPECL, PECL	Differential 4:1 ECL/PECL Multiplexer
DS1100	5-Tap Economy Timing Element (Delay Line)	PRODUCTION	Time Delay	1	-	-	-	-	5-Tap Economy Timing Element (Delay Line)

	Description	Product Lifecycle	Clock Function	# Outputs	Interface	On-Chip VCO or DCO	Output Frequency ^{max}	Output Logic	Comments
DS1100L	3-Volt 5-Tap Economy Timing Element (Delay Line)	PRODUCTION	Time Delay	1	-	-	-	-	3V 5-Tap Delay Line
DS1110	10-Tap Silicon Delay Line	PRODUCTION	Time Delay	1	-	-	-	-	10-Tap Silicon Delay Line
DS1110L	3V 10-Tap Silicon Delay Line	PRODUCTION	Time Delay	1	-	-	-	-	3V 10-Tap Silicon Delay Line
MAX9321B	Differential PECL/ECL/LVPECL /LVECL Receiver/Driver	PRODUCTION	Buffer	1	-	No	-	ECL, LVECL, LVPECL, PECL	Differential LVPECL/LVECL/HSTL Receiver/Drivers
MAX9180	400Mbps, Low-Jitter, Low-Noise LVDS Repeater in an SC70 Package	PRODUCTION	Buffer	1	-	No	400M	LVDS	400Mbps, Low-Jitter, Low-Noise LVDS Repeater in an SC70 Package
DS1135L	3-Volt 3-in-1 High-Speed Silicon Delay Line	PRODUCTION	Time Delay	3	-	-	-	-	3V 3-in-1 High-Speed Silicon Delay Line
MAX9155	Low-Jitter, Low-Noise LVDS Repeater in an SC70 Package	PRODUCTION	Buffer	1	-	No	200M	LVDS	Low-Jitter, Low-Noise LVDS Repeater in an SC70 Package
MAX3783	2.7Gbps Dual Mux/Buffer with Loopback	NOT RECOMMENDED FOR NEW DESIGNS	Demultiplexer, Multiplexer	8	-	No	2.75G	CML	2.75Gbps Dual Mux/Buffer with Loopback
DS1135	3-in-1 High-Speed Silicon Delay Line	PRODUCTION	Time Delay	3	-	-	-	-	3-in-1 High-Speed Silicon Delay Line
MAX9321	Differential LVPECL/LVECL/HSTL Receiver/Drivers	PRODUCTION	Buffer	1	-	No	-	LVECL, LVPECL	Differential LVPECL/LVECL/HSTL Receiver/Drivers
MAX9152	800Mbps, LVDS/LVPECL-to-LVDS 2 x 2 Crosspoint Switch	PRODUCTION	Switch	2	-	No	800M	LVDS	800Mbps LVDS/LVPECL-to-LVDS 2 x 2 Crosspoint Switch
MAX3840	+3.3V, 2.7Gbps Dual 2 x 2 Crosspoint Switch	NOT RECOMMENDED FOR NEW DESIGNS	Switch	4	-	No	2.7G	CML	+3.3V, 2.7Gbps Dual 2 x 2 Crosspoint Switch

	Description	Product Lifecycle	Clock Function	# Outputs	Interface	On-Chip VCO or DCO	Output Frequency ^{max}	Output Logic	Comments
DS1023	8-Bit Programmable Timing Element	PRODUCTION	Time Delay	1	-	-	-	-	8-Bit Programmable Timing Element
AD9542	Dual DPLL, Quad Input, 10 Output, Multiservice Line Card Clock Translator and Jitter Cleaner	RECOMMENDED FOR NEW DESIGNS	Generation, Synchronization	10	I2C/SMBus, Serial, SPI	Yes	500M	CML, HCSL, LVDS	Dual DPLL, Quad Input, 10 Output, Multiservice Line Card Clock Translator and Jitter Cleaner
HMC856	28 Gbps, 5-Bit, Digital Time Delay with Programmable Output Voltage	RECOMMENDED FOR NEW DESIGNS	Delay	-	Pin Select	No	-	-	28 Gbps, 5-Bit, Digital Time Delay with Programmable Output Voltage
HMC859	26 GHz, Divide-By-8 SMT with Reset & Programmable Output Voltage	RECOMMENDED FOR NEW DESIGNS	Divider	1	Pin Select	No	26G	CML	26 GHz, Divide-By-8 SMT with Reset & Programmable Output Voltage
HMC877	Broadband Time Delay & Phase Shifter SMT, 8 - 23 GHz	LAST TIME BUY	Delay	1	Pin Select	No	23G	-	Broadband Time Delay & Phase Shifter SMT, 8 - 23 GHz
HMC910	Broadband Analog Time Delay SMT, DC - 24 GHz	LAST TIME BUY	Delay	1	Pin Select	No	24G	-	Broadband Analog Time Delay SMT, DC - 24 GHz
HMC911	Broadband Analog Time Delay to 24 GHz	RECOMMENDED FOR NEW DESIGNS	Delay	1	Pin Select	No	24G	-	Broadband Analog Time Delay to 24 GHz
HMC959	26 GHz, Divide-By-4 SMT with Reset & Programmable Output Voltage	RECOMMENDED FOR NEW DESIGNS	Divider	1	Pin Select	No	26G	CML	26 GHz, Divide-By-4 SMT with Reset & Programmable Output Voltage
LTC6953	Ultralow Jitter, 4.5GHz Clock Distributor with 11 Outputs and JESD204B/JESD204C Support	LAST TIME BUY	Distribution	11	SPI	No	4.5G	CML	Ultralow Jitter, 4.5GHz Clock Distributor with 11 Outputs and JESD204B/JESD204C Support

Counters, Timers and Delay Lines

Parts	Description	Product Lifecycle	Number of Outputs	Clock Function	Comments
ADAR4002	0.5 GHz to 19 GHz Broadband Bi-Directional Single Channel True Time Delay Unit	RECOMMENDED FOR NEW DESIGNS	1	Time Delay	0.5 GHz to 19 GHz Broadband Bi-Directional Single Channel True Time Delay Unit
LTC2956	Wake-Up Timer with Pushbutton Control	RECOMMENDED FOR NEW DESIGNS	1	Timer/Counter	Wake-Up Timer with Pushbutton Control
LTC6995-1	TimerBlox: Long Timer, Low Frequency Oscillator	PRODUCTION	1	Timer/Counter	TimerBlox: Long Timer, Low Frequency Oscillator, Active High Reset Input
LTC6995-2	TimerBlox: Long Timer, Low Frequency Oscillator	PRODUCTION	1	Timer/Counter	TimerBlox: Long Timer, Low Frequency Oscillator, Active Low Reset Input
LTC6991	TimerBlox: Resettable, Low Frequency Oscillator	PRODUCTION	1	Oscillator	TimerBlox: Resettable Low Frequency Oscillator
LTC6993-1	TimerBlox: Monostable Pulse Generator (One Shot)	PRODUCTION	1	Monostable Pulse	TimerBlox: Monostable Pulse Generator, Rising Edge Input Polarity
LTC6993-2	TimerBlox: Monostable Pulse Generator (One Shot)	PRODUCTION	1	Monostable Pulse	TimerBlox: Monostable Pulse Generator, Rising Edge Input Polarity, Retriggerable
LTC6993-3	TimerBlox: Monostable Pulse Generator (One Shot)	PRODUCTION	1	Monostable Pulse	TimerBlox: Monostable Pulse Generator, Falling Edge Input Polarity
LTC6993-4	TimerBlox: Monostable Pulse Generator (One Shot)	PRODUCTION	1	Monostable Pulse	TimerBlox: Monostable Pulse Generator, Falling Edge Input Polarity, Retriggerable
LTC6994-1	TimerBlox: Delay Block/Debouncer	PRODUCTION	1	Time Delay	TimerBlox: Delay Block/Debouncer, Delays One Rising or Falling Clock Edge
LTC6994-2	TimerBlox: Delay Block/Debouncer	PRODUCTION	1	Time Delay	TimerBlox: Delay Block/Debouncer, Delays Both Clock Edges
LTC6990	TimerBlox: Voltage Controlled Silicon Oscillator	PRODUCTION	1	Oscillator	TimerBlox: Voltage Controlled Silicon Oscillator
LTC6992-1	TimerBlox: Voltage-Controlled Pulse Width Modulator (PWM)	PRODUCTION	1	Programmable PWM	TimerBlox: Voltage Controlled Pulse Width Modulator

	Description	Product Lifecycle	Number of Outputs	Clock Function	Comments
LTC6992-2	TimerBlox: Voltage-Controlled Pulse Width Modulator (PWM)	PRODUCTION	1	Programmable PWM	TimerBlox: Voltage Controlled Pulse Width Modulator
LTC6992-3	TimerBlox: Voltage-Controlled Pulse Width Modulator (PWM)	PRODUCTION	1	Programmable PWM	TimerBlox: Voltage Controlled Pulse Width Modulator
LTC6992-4	TimerBlox: Voltage-Controlled Pulse Width Modulator (PWM)	PRODUCTION	1	Programmable PWM	TimerBlox: Voltage Controlled Pulse Width Modulator
DS1124	5.0V 8-Bit Programmable Timing Element	PRODUCTION	1	Time Delay	5.0V 8-Bit Programmable Timing Element
DS1318	Parallel-Interface Elapsed Time Counter	PRODUCTION	1	Timer/Counter	Parallel-Interface Elapsed Time Counter
DS1100	5-Tap Economy Timing Element (Delay Line)	PRODUCTION	1	Time Delay	5-Tap Economy Timing Element (Delay Line)
DS1100L	3-Volt 5-Tap Economy Timing Element (Delay Line)	PRODUCTION	1	Time Delay	3V 5-Tap Delay Line
DS1110	10-Tap Silicon Delay Line	PRODUCTION	1	Time Delay	10-Tap Silicon Delay Line
DS1110L	3V 10-Tap Silicon Delay Line	PRODUCTION	1	Time Delay	3V 10-Tap Silicon Delay Line
DS1135L	3-Volt 3-in-1 High-Speed Silicon Delay Line	PRODUCTION	1	Time Delay	3V 3-in-1 High-Speed Silicon Delay Line
DS1050	5 Bit Programmable, Pulse-Width Modulator: 1kHz, 5kHz, 10kHz, and 25kHz	PRODUCTION	1	Programmable PWM	5 Bit Programmable, Pulse-Width Modulator: 1kHz, 5kHz, 10kHz, and 25kHz
DS1135	3-in-1 High-Speed Silicon Delay Line	PRODUCTION	1	Time Delay	3-in-1 High-Speed Silicon Delay Line
DS1023	8-Bit Programmable Timing Element	PRODUCTION	1	Time Delay	8-Bit Programmable Timing Element
ICM7555	General-Purpose Timers	PRODUCTION	1	Timer/Counter	Low-Power, General-Purpose Timer
ICM7556	General-Purpose Timers	PRODUCTION	1	Timer/Counter	Low-Power, General-Purpose Dual Timer
ICM7224	4 1/2 Digit, LCD, High-Speed Counter Decoder Driver	PRODUCTION	1	Timer/Counter	4 1/2-Digit, LCD, High-Speed Counter/Decoder/Driver

	Description	Product Lifecycle	Number of Outputs	Clock Function	Comments
ICM7225	4 1/2 Digit, LCD, High-Speed Counter Decoder Driver	PRODUCTION	1	Timer/Counter	4 1/2-Digit, LED, High-Speed Counter/Decoder/Driver
ICM7217	4-Digit, Presetable, LED Up/Down Counter	PRODUCTION	1	Timer/Counter	4-Digit (9999), Presetable, Common-Anode LED Up/Down Counter
ICM7217A	4-Digit, Presetable, LED Up/Down Counter	PRODUCTION	1	Timer/Counter	4-Digit (9999), Presetable, Common-Cathode LED Up/Down Counter
ICM7217B	4-Digit, Presetable, LED Up/Down Counter	PRODUCTION	1	Timer/Counter	4-Digit (5959), Presetable, Common-Anode LED Up/Down Counter
ICM7217C	4-Digit, Presetable, LED Up/Down Counter	PRODUCTION	1	Timer/Counter	4-Digit (5959), Presetable, Common-Cathode LED Up/Down Counter
ICM7240	8-Bit Binary, Programmable, RC Timer Counter	PRODUCTION	1	Timer/Counter	8-Bit Binary, Programmable, RC Timer/Counter
ICM7242	8-Bit Binary, Programmable, RC Timer Counter	PRODUCTION	1	Timer/Counter	7-Bit Binary, Fixed, RC Timer/Counter
ICM7250	8-Bit Binary, Programmable, RC Timer Counter	PRODUCTION	1	Timer/Counter	Two-Digit BCD, Programmable, RC Timer/Counter
HMC856	28 Gbps, 5-Bit, Digital Time Delay with Programmable Output Voltage	RECOMMENDED FOR NEW DESIGNS	1	Delay	28 Gbps, 5-Bit, Digital Time Delay with Programmable Output Voltage
HMC877	Broadband Time Delay & Phase Shifter SMT, 8 - 23 GHz	LAST TIME BUY	1	Delay	Broadband Time Delay & Phase Shifter SMT, 8 - 23 GHz
HMC910	Broadband Analog Time Delay SMT, DC - 24 GHz	LAST TIME BUY	1	Delay	Broadband Analog Time Delay SMT, DC - 24 GHz
HMC911	Broadband Analog Time Delay to 24 GHz	RECOMMENDED FOR NEW DESIGNS	1	Delay	Broadband Analog Time Delay to 24 GHz

Direct Digital Synthesis (DDS)

Parts	Description	Product Lifecycle	Device Primary Function	# of Channels	DAC Resolution	Clock Input ^{max}	Tuning Word Width ^{max}	Power ^{typ}
AD9914S	3.5 GSPS Direct Digital Synthesizer with 12-Bit DAC	RECOMMENDED FOR NEW DESIGNS	DDS	1	12	3.5G	32	2.4
AD9177	Quad, 16-Bit, 12 GSPS RF DAC with Wideband Channelizers	RECOMMENDED FOR NEW DESIGNS	DDS, High Speed DAC	4	16	12G	-	6.4
AD9166	DC to 9 GHz, Vector Signal Generator	RECOMMENDED FOR NEW DESIGNS	DDS, High Speed DAC	1	-	-	-	4.88
AD9174	Dual, 16-Bit, 12.6 GSPS RF DAC and Direct Digital Synthesizer	RECOMMENDED FOR NEW DESIGNS	DDS, High Speed DAC	2	16	12.6G	-	2.55
AD9164	16-Bit, 12 GSPS, RF DAC and Direct Digital Synthesizer	RECOMMENDED FOR NEW DESIGNS	DDS, High Speed DAC	1	16	12G	-	2.35
AD9161	11-Bit, 12 GSPS, RF Digital-to-Analog Converters	RECOMMENDED FOR NEW DESIGNS	High Speed DAC	1	-	-	-	2.35
AD9162	16-Bit, 12 GSPS, RF Digital-to-Analog Converters	RECOMMENDED FOR NEW DESIGNS	High Speed DAC	1	-	-	-	2.35
AD9102	Low Power, 14-Bit, 180 MSPS, Digital-to-Analog Converter and Waveform Generator	PRODUCTION	DDS, Waveform Generator	1	14	180M	24	96m
AD9106	Quad, Low Power, 12-Bit, 180 MSPS, Digital-to-Analog Converter and Waveform Generator	PRODUCTION	DDS, Waveform Generator	4	12	180M	24	315m
AD9915	2.5 GSPS Direct Digital Synthesizer with 12-bit DAC	RECOMMENDED FOR NEW DESIGNS	DDS	1	12	2.5G	32	2.2
AD9914	3.5 GSPS Direct Digital Synthesizer with 12-bit DAC	RECOMMENDED FOR NEW DESIGNS	DDS	1	12	3.5G	32	2.4
MAX5882	14-Bit, 4.6Gsps Cable Downstream Direct RF Synthesis DAC	NOT RECOMMENDED FOR NEW DESIGNS	DDS, High Speed DAC	1	14	4.6G	-	2.3
MAX5879	14-Bit, 2.3Gsps Direct RF Synthesis DAC with Selectable Frequency Response	PRODUCTION	DDS, High Speed DAC	1	14	2.3G	-	2.3

	Description	Product Lifecycle	Device Primary Function	# of Channels	DAC Resolution	Clock Input ^{max}	Tuning Word ^{max} Width	Power ^{typ}
AD9837	Low Power, 8.5 mW, 2.3 V to 5.5 V, Programmable Waveform Generator	PRODUCTION	DDS, Waveform Generator	1	10	16M	28	12.21m
AD9838	11 mW Power, 2.3 V to 5.5 V, Complete DDS	PRODUCTION	DDS, Waveform Generator	1	10	16M	28	15.18m
AD9913	Low Power 250 MSPS 10-Bit DAC 1.8 V CMOS Direct Digital Synthesizer	RECOMMENDED FOR NEW DESIGNS	DDS	1	10	250M	32	50m
AD9912	1 GSPS Direct Digital Synthesizer with 14-Bit DAC	RECOMMENDED FOR NEW DESIGNS	DDS	1	14	1G	48	637m
AD9911	500 MSPS Direct Digital Synthesizer with 10-Bit DAC	RECOMMENDED FOR NEW DESIGNS	DDS	1	10	500M	32	241m
AD9854	CMOS 300 MSPS Quadrature Complete DDS	PRODUCTION	DDS	2	12	300M	48	3.5
AD9956	2.7 GHz DDS-Based AgileRF™ Synthesizer	RECOMMENDED FOR NEW DESIGNS	DDS	1	14	400M	48	400m
AD9910	1 GSPS, 14-Bit, 3.3 V CMOS Direct Digital Synthesizer	RECOMMENDED FOR NEW DESIGNS	DDS	1	14	1G	32	715m
AD9858	1 GSPS Direct Digital Synthesizer	PRODUCTION	DDS	1	10	1G	32	2
AD5933	1 MSPS, 12-Bit Impedance Converter, Network Analyzer	PRODUCTION	DDS, Impedance Calculator-DDS Core	1	12	16.776M	27	33m
AD5934	250 kSPS, 12-Bit Impedance Converter, Network Analyzer	PRODUCTION	DDS, Impedance Calculator-DDS Core	1	12	16.776M	27	33m
AD9954	400 MSPS, 14-Bit, 1.8 V CMOS, Direct Digital Synthesizer	PRODUCTION	DDS	1	14	400M	32	162m
AD9834	20 mW Power, 2.3 V to 5.5 V, 75 MHz Complete DDS	PRODUCTION	DDS, Waveform Generator	1	10	75M	28	19.14m
AD9952	400 MSPS 14-Bit DAC 1.8 V CMOS Direct Digital Synthesizer	RECOMMENDED FOR NEW DESIGNS	DDS	1	14	400M	32	162m

	Description	Product Lifecycle	Device Primary Function	# of Channels	DAC Resolution	Clock Input ^{max}	Tuning Word ^{max} Width	Power ^{typ}
AD5932	Programmable Frequency Scan Waveform Generator	PRODUCTION	DDS, Waveform Generator	1	10	50M	24	20.26m
AD9958	2-Channel, 500 MSPS DDS with 10-Bit DACs	RECOMMENDED FOR NEW DESIGNS	DDS	2	10	500M	32	350m
AD9959	4 Channel 500 MSPS DDS with 10-bit DACs	RECOMMENDED FOR NEW DESIGNS	DDS	4	10	500M	32	580m
AD5930	Programmable Frequency Sweep and Output Burst Waveform Generator	PRODUCTION	DDS, Waveform Generator	1	10	50M	24	20.26m
AD9830	Direct Digital Synthesizer, Waveform Generator	PRODUCTION	DDS	1	10	50M	32	250m
AD9831	Direct Digital Synthesizer Waveform Generator	PRODUCTION	DDS	1	10	25M	32	40m
AD9832	25 MHz Direct Digital Synthesizer Waveform Generator	PRODUCTION	DDS	1	10	25M	32	87.5m
AD9833	Low Power, 12.65 mW, 2.3 V to 5.5 V, Programmable Waveform Generator	PRODUCTION	DDS, Waveform Generator	1	10	25M	28	14.85m
AD9835	50 MHz Direct Digital Synthesizer, Waveform Generator	PRODUCTION	DDS	1	10	50M	32	73.5m
AD9851	180 MHz Complete DDS synthesizer	PRODUCTION	DDS	1	10	180M	32	555m
AD9859	400 MSPS 10-Bit DAC 1.8 V CMOS Direct Digital Synthesizer	RECOMMENDED FOR NEW DESIGNS	DDS	1	10	400M	32	162m
AD9951	400 MSPS 14-Bit 1.8 V CMOS Direct Digital Synthesizer	RECOMMENDED FOR NEW DESIGNS	DDS	1	14	400M	32	162m
AD9953	400 MSPS, 14-Bit, 1.8 V CMOS Direct Digital Synthesizer	RECOMMENDED FOR NEW DESIGNS	DDS	1	14	400M	32	162m
AD9850	CMOS, 125 MHz Complete DDS Synthesizer	PRODUCTION	DDS	1	10	125M	32	380m

Oscillator Modules (TCXO, DTCXO, VCXO, XO)

Parts	Description	Product Lifecycle	Frequency Stability	Frequency Stability	Frequency Stability	Frequency Stability	Frequency	Smallest Available Pckg.	Frequency Stability	Frequency Output Type	Osc. Type	Tuning Adjustment Type	VSUPPLY	Eval / Ref Circuit	Export Classification	Automotive	Reliability Level	Temp Range	Design Tools	Terminal Finish	Temp Range Code
DS32KHZ	32.768kHz Temperature-Compensated Crystal Oscillator	RECOMMENDED FOR NEW DESIGNS	1 (First Year)	2.5 (typ)	2	-	32.768kHz	0.0	7.5	CMOS Push-Pull	TCXO	-	4.5 to 5.5	-	EAR99	No	-	-40 to 85°C	-	E1, E3	C,E

Phase Locked Loop (PLL) Synthesizer & Translation Loop

Parts	Description	Product Lifecycle	RF Primary Function	Integrated VCO	Freq Response RF ^{min}	Freq Response RF ^{max}	Freq Ref Input ^{max}	1/f Noise (10kHz Offset at 1GHz Carrier) ^{typ}	FOM-Normalized Inband PN Int-N ^{typ}	Is ^{typ}	Vs+ ^{min}	Vs+ ^{max}
ADF41510	10 GHz, Integer-N/Fractional-N PLL Synthesizer	RECOMMENDED FOR NEW DESIGNS	Fractional-N PLL, Integer-N PLL, Low Phase Noise	No	1G	10G	800M	-128	-235	-	3.15	3.45
ADF4378	Microwave Wideband Synthesizer with Integrated VCO and Deterministic General-Purpose Pulse Retimer	RECOMMENDED FOR NEW DESIGNS	Integer-N PLL, Low Phase Noise, PLL with Integrated VCO	Yes	800M	12.8G	1G	-147	-239	-	3.15	5.25
ADF4382A	2.87GHz to 21GHz Fractional-N PLL/VCO for High Performance Converter Clocking Applications	RECOMMENDED FOR NEW DESIGNS	Fractional-N PLL, Integer-N PLL, Low Phase Noise, PLL with Integrated VCO	Yes	2.875G	21G	4.5G	-147	-239	-	3.15	5.25
ADF4368	Microwave Wideband Synthesizer with Integrated VCO	RECOMMENDED FOR NEW DESIGNS	Fractional-N PLL, Integer-N PLL, Low Phase Noise, PLL with Integrated VCO	Yes	800M	12.8G	4G	-147	-239	-	3.15	5.25
ADF4377	Microwave Wideband Synthesizer with Integrated VCO	RECOMMENDED FOR NEW DESIGNS	Integer-N PLL, Low Phase Noise, PLL with Integrated VCO	Yes	800M	12.8G	1G	-147	-239	-	3.15	5.25
ADF4401A	Translation Loop, PLL, VCO Module	RECOMMENDED FOR NEW DESIGNS	Translation Loop PLL VCO module	Yes	62.5M	8G	500M	-	-	676m	3.15	5.25
ADF4372	Microwave Wideband Synthesizer with Integrated VCO	RECOMMENDED FOR NEW DESIGNS	Fractional-N PLL, Integer-N PLL	Yes	62M	16G	600M	-127	-234	270M	3.15	3.45
ADF41513	26.5 GHz, Integer N/Fractional-N, PLL Synthesizer	RECOMMENDED FOR NEW DESIGNS	Fractional-N PLL, Integer-N PLL	No	1G	26.5G	800M	-128	-235	74.7m	3.135	3.465
ADF4371	Microwave Wideband Synthesizer with Integrated VCO	RECOMMENDED FOR NEW DESIGNS	Fractional-N PLL, Integer-N PLL	Yes	62.5M	32G	600M	-127	-234	260m	3.15	3.45
ADF5356	Microwave Wideband Synthesizer with Integrated VCO	RECOMMENDED FOR NEW DESIGNS	Fractional-N PLL, Integer-N PLL	Yes	53.125M	13.6G	600M	-121	-227	126m	3.15	5.25
ADF4356	6.8 GHz Wideband Synthesizer with Integrated VCO	RECOMMENDED FOR NEW DESIGNS	Fractional-N PLL, Integer-N PLL	Yes	53.125M	6.8G	600M	-121	-227	166m	3.15	3.45
ADF4152HV	High Voltage, Fractional-N/Integer N PLL Synthesizer	RECOMMENDED FOR NEW DESIGNS	Fractional-N PLL, Integer-N PLL	No	500M	5G	300M	-113	-213	50m	3	3.6

	Description	Product Lifecycle	RF Primary Function	Integrated VCO	Freq Response RF ^{min}	Freq Response RF ^{max}	Freq Ref Input ^{max}	1/f Noise (10kHz Offset at 1GHz Carrier) ^{typ}	FOM-Normalized Inband PN Int-N ^{typ}	Is ^{typ}	Vs+ ^{min}	Vs+ ^{max}
HMC4069	2.9 GHz Integer-N Synthesizer (N = 2 - 32)	PRODUCTION	Integer-N PLL	No	10M	2.9G	1.3G	-144	-233	295m	4.75	5.25
ADF4355-3	Microwave Wideband Synthesizer with Integrated VCO	RECOMMENDED FOR NEW DESIGNS	Fractional-N PLL, Integer-N PLL	Yes	51.565M	6.6G	600M	-116	-223	146m	3.1515	3.4485
ADF4169	Direct Modulation/Fast Waveform Generating, 13.5 GHz, Fractional-N Frequency Synthesizer	RECOMMENDED FOR NEW DESIGNS	Fractional-N PLL, Integer-N PLL	No	500M	13.5G	260M	-120	-224	39m	2.7	3.45
ADF4355	Microwave Wideband Synthesizer with Integrated VCO	RECOMMENDED FOR NEW DESIGNS	Fractional-N PLL, Integer-N PLL	Yes	53.125M	6.8G	600M	-116	-223	140m	3.15	3.45
ADF4355-2	Microwave Wideband Synthesizer with Integrated VCO	RECOMMENDED FOR NEW DESIGNS	Fractional-N PLL, Integer-N PLL	Yes	53.125M	4.4G	600M	-116	-223	140m	3.15	3.45
ADF5355	Microwave Wideband Synthesizer with Integrated VCO	RECOMMENDED FOR NEW DESIGNS	Fractional-N PLL, Integer-N PLL	Yes	54M	13.6G	600M	-116	-223	140m	3.15	3.45
MAX2871	23.5MHz to 6000MHz Fractional/Integer-N Synthesizer/VCO	PRODUCTION	Fractional-N PLL, Integer-N PLL	Yes	23.5M	6G	210M	-	-	165m	3	3.6
LTC6947	Ultralow Noise 0.35GHz to 6GHz Fractional-N Synthesizer	LAST TIME BUY	Fractional-N PLL, Integer-N PLL	No	350M	6G	425M	-134	-225	133m	3.15	3.45
LTC6948-1	Ultralow Noise 0.37GHz to 6.39GHz Fractional-N Synthesizer with Integrated VCO	LAST TIME BUY	Fractional-N PLL, Integer-N PLL	Yes	370M	3.74G	425M	-134	-226	48m	3.15	3.45
LTC6948-2	Ultralow Noise 0.37GHz to 6.39GHz Fractional-N Synthesizer with Integrated VCO	LAST TIME BUY	Fractional-N PLL, Integer-N PLL	Yes	510M	4.91G	425M	-134	-226	48m	3.15	3.45
LTC6948-3	Ultralow Noise 0.37GHz to 6.39GHz Fractional-N Synthesizer with Integrated VCO	LAST TIME BUY	Fractional-N PLL, Integer-N PLL	Yes	640M	5.79G	425M	-134	-226	48m	3.15	3.45
LTC6948-4	Ultralow Noise 0.37GHz to 6.39GHz Fractional-N Synthesizer with Integrated VCO	LAST TIME BUY	Fractional-N PLL, Integer-N PLL	Yes	700M	6.39G	425M	-134	-226	48m	3.15	3.45
ADF4155	Integer-N / Fractional-N PLL Synthesizer	RECOMMENDED FOR NEW DESIGNS	Fractional-N PLL, Integer-N PLL	No	500M	8G	600M	-116	-223	38m	3.135	3.465
MAX2880	250MHz to 12.4GHz, High-Performance, Fractional/Integer-N PLL	PRODUCTION	Fractional-N PLL, Integer-N PLL	No	250M	12.4G	210M	-	-	49m	3	3.6

	Description	Product Lifecycle	RF Primary Function	Integrated VCO	Freq Response RF min	Freq Response RF max	Freq Ref Input max	1/f Noise (10kHz Offset at 1GHz Carrier) typ	FOM-Normalized Inband PN Int-N typ	Is typ	Vs+ min	Vs+ max
ADF4108S	Aerospace PLL Frequency Synthesizer	RECOMMENDED FOR NEW DESIGNS	Integer-N PLL	No	1G	7G	250M	-	-	-	3.2	3.6
ADF4153A	Fractional-N Frequency Synthesizer	RECOMMENDED FOR NEW DESIGNS	Fractional-N PLL, Integer-N PLL	No	500M	4G	250M	-121	-223	20m	2.7	3.3
ADF4159	Direct Modulation/Fast Waveform Generating, 13 GHz, Fractional-N Frequency Synthesizer	RECOMMENDED FOR NEW DESIGNS	Fractional-N PLL, Integer-N PLL	No	500M	13G	260M	-120	-224	33m	2.7	3.45
MAX2870	23.5MHz to 6000MHz Fractional/Integer-N Synthesizer/VCO	PRODUCTION	Fractional-N PLL, Integer-N PLL	Yes	23.5M	6G	200M	-	-	144m	3	3.6
ADF4151	Fractional-N/Integer-N PLL Synthesizer	RECOMMENDED FOR NEW DESIGNS	Fractional-N PLL, Integer-N PLL	No	500M	3.5G	250M	-118	-221	42m	3	3.6
ADF41020	18 GHz Microwave PLL Synthesizer	NOT RECOMMENDED FOR NEW DESIGNS	Integer-N PLL	No	4G	18G	400M	-118	-221	30m	2.85	3.15
ADF4196	Low Phase Noise, Fast Settling 6 GHz PLL Frequency Synthesizer	RECOMMENDED FOR NEW DESIGNS	Fractional-N PLL, Integer-N PLL	No	400M	6G	300M	-110	-216	68m	2.7	3.3
ADF4351	Wideband Synthesizer with Integrated VCO	RECOMMENDED FOR NEW DESIGNS	Fractional-N PLL, Integer-N PLL	Yes	35M	4.4G	250M	-118	-221	110m	3	3.6
ADF4150HV	High Voltage, Fractional-N / Integer-N PLL Synthesizer	RECOMMENDED FOR NEW DESIGNS	Fractional-N PLL, Integer-N PLL	No	10M	3G	300M	-113	-213	50m	3	3.6
ADF4158	Direct Modulation/Waveform Generating, 6.1 GHz Fractional-N Frequency Synthesizer	RECOMMENDED FOR NEW DESIGNS	Fractional-N PLL, Integer-N PLL	No	500M	6.1G	260M	-110	-216	23m	2.7	3.3
ADF4150	Fractional-N/Integer-N PLL Synthesizer	RECOMMENDED FOR NEW DESIGNS	Fractional-N PLL, Integer-N PLL	No	500M	5G	250M	-123	-223	50m	3	3.6
ADF4350	Wideband Synthesizer with Integrated VCO	PRODUCTION	Fractional-N PLL, Integer-N PLL	Yes	137.5M	4.4G	250M	-111	-220	110m	3	3.6
ADF4360-9	Clock Generator PLL with Integrated VCO	PRODUCTION	Integer-N PLL	Yes	2M	200M	250M	-	-218	23m	3	3.6
ADF4157	High Resolution 6 GHz Fractional-N Frequency Synthesizer	PRODUCTION	Fractional-N PLL, Integer-N PLL	No	500M	6G	250M	-110	-211	23m	2.7	3.3
ADF4113HV	High Voltage Charge Pump, PLL Synthesizer	RECOMMENDED FOR NEW DESIGNS	Integer-N PLL	No	200M	3.7G	150M	-	-212	11m	2.7	5.5

	Description	Product Lifecycle	RF Primary Function	Integrated VCO	Freq Response RF ^{min}	Freq Response RF ^{max}	Freq Ref Input ^{max}	1/f Noise (10kHz Offset at 1GHz Carrier) ^{typ}	FOM-Normalized Inband PN Int-N ^{typ}	Is ^{typ}	Vs+ ^{min}	Vs+ ^{max}
ADF4212L	Dual Power PLL Frequency Synthesizer	PRODUCTION	Dual PLL, Integer-N PLL	No	200M	2.4G	150M	-	-215	7.5m	2.7	3.3
ADF4154	Fractional-N Frequency Synthesizer	RECOMMENDED FOR NEW DESIGNS	Fractional-N PLL, Integer-N PLL	No	500M	4G	250M	-114	-220	20m	2.7	3.3
ADF4156	6.2 GHz Fractional-N Frequency Synthesizer	PRODUCTION	Fractional-N PLL, Integer-N PLL	No	500M	6.2G	250M	-110	-220	26m	2.7	3.3
ADF4002	Phase Detector / PLL Frequency Synthesizer	RECOMMENDED FOR NEW DESIGNS	Integer-N PLL	No	5M	400M	300M	-119	-222	5m	2.7	3.3
ADF4108	8 GHz integer-N PLL	RECOMMENDED FOR NEW DESIGNS	Integer-N PLL	No	1G	8G	250M	-122	-223	15m	3.2	3.6
MAX9491	Factory-Programmable, Single PLL Clock Generator	PRODUCTION	Fractional-N PLL	Yes	4M	200M	-	-	-	10m	3	3.6
ADF4208	Dual, Integer-N 1.1 GHz / 2.0 GHz PLL	PRODUCTION	Dual PLL, Integer-N PLL	No	80M	2G	400M	-	-217	14m	2.7	5.5
ADF4001	200 MHz Clock Generator PLL	PRODUCTION	Integer-N PLL	No	10M	200M	104M	-	-217	4.5m	2.7	5.5
ADF4007	High Frequency Divider/PLL Synthesizer	RECOMMENDED FOR NEW DESIGNS	Integer-N PLL	No	1G	7.5G	240M	-	-219	15m	2.7	3.3
ADF4107	7 GHz integer-N PLL	PRODUCTION	Integer-N PLL	No	1G	7G	250M	-122	-223	17m	2.7	3.3
ADF4110	Single, Integer-N, 550 MHz PLL With Programmable Prescaler And Charge Pump	PRODUCTION	Integer-N PLL	No	50M	550M	104M	-	-213	4.5m	2.7	5.5
ADF4111	Single, Integer-N, 1.2 GHz PLL With Programmable Prescaler And Charge Pump	PRODUCTION	Integer-N PLL	No	80M	1.2G	104M	-	-213	4.5m	2.7	5.5
ADF4112	Single, Integer-N 3.0 GHz PLL With Programmable Prescaler And Charge Pump	PRODUCTION	Integer-N PLL	No	100M	3G	104M	-	-215	6.5m	2.7	5.5
ADF4113	Single, Integer-N 4.0 GHz PLL With Programmable Prescaler And Charge Pump	PRODUCTION	Integer-N PLL	No	200M	3.7G	104M	-	-217	8.5m	2.7	5.5
ADF4218L	Low Power dual RF/IF Integer-N PLL	PRODUCTION	Dual PLL, Integer-N PLL	No	150M	3G	110M	-	-216	7m	2.7	3.3

	Description	Product Lifecycle	RF Primary Function	Integrated VCO	Freq Response RF ^{min}	Freq Response RF ^{max}	Freq Ref Input ^{max}	1/f Noise (10kHz Offset at 1GHz Carrier) ^{typ}	FOM-Normalized Inband PN Int-N ^{typ}	Is ^{typ}	Vs+ ^{min}	Vs+ ^{max}
ADF4252	Dual Fractional-N/ Integer-N Frequency Synthesizer	PRODUCTION	Dual PLL, Fractional-N PLL, Integer-N PLL	No	250M	3G	250M	-	-214	13m	2.7	3.3
ADF4360-3	Integrated Integer-N Synthesizer and VCO - Output Frequency 1600 to 1950	PRODUCTION	Integer-N PLL	Yes	1.6G	1.95G	250M	-	-216	35m	3	3.6
ADF4360-7	Integrated Synthesizer and VCO	PRODUCTION	Integer-N PLL	Yes	350M	1.8G	250M	-	-216	37.5m	3	3.6
ADF4193	Low Phase Noise, Fast Settling PLL Frequency Synthesizer	PRODUCTION	Fractional-N PLL, Integer-N PLL	No	400M	3.5G	300M	-110	-216	68m	2.7	3.3
ADF4153	Fractional-N Frequency Synthesizer	PRODUCTION	Fractional-N PLL, Integer-N PLL	No	500M	4G	250M	-114	-223	20m	2.7	3.3
ADF4106	6 GHz integer-N PLL	PRODUCTION	Integer-N PLL	No	500M	6G	300M	-122	-223	13m	2.7	3.3
ADF4360-4	Integrated Integer-N Synthesizer and VCO - Output Frequency 1450 to 1750	PRODUCTION	Integer-N PLL	Yes	1.45G	1.75G	250M	-	-216	35m	3	3.6
ADF4360-5	Integrated Integer-N Synthesizer and VCO - Output Frequency 1200 to 1400	PRODUCTION	Integer-N PLL	Yes	1.2G	1.4G	250M	-	-216	35m	3	3.6
ADF4360-6	Integrated Integer-N Synthesizer and VCO - Output Frequency 1050 to 1250	PRODUCTION	Integer-N PLL	Yes	1.05G	1.25G	250M	-	-216	35m	3	3.6
ADF4360-0	Integrated Integer-N Synthesizer/VCO Output Frequency 2400-2725	PRODUCTION	Integer-N PLL	Yes	2.4G	2.725G	250M	-	-216	35m	3	3.6
ADF4360-1	Integrated Integer-N Synthesizer and VCO - Output Frequency 2050 to 2450	PRODUCTION	Integer-N PLL	Yes	2.05G	2.45G	250M	-	-216	35m	3	3.6
ADF4360-2	Integrated Integer-N Synthesizer and VCO - Output Frequency 1850 to 2170	PRODUCTION	Integer-N PLL	Yes	1.85G	2.17G	250M	-	-216	35m	3	3.6
ADF4360-8	Integrated Integer-N Synthesizer and VCO - Output Frequency 65 to 400	PRODUCTION	Integer-N PLL	Yes	65M	400M	250M	-	-216	35m	3	3.6
ADF4116	Single, Integer-N 550 MHz PLL	PRODUCTION	Integer-N PLL	No	80M	550M	100M	-	-211	4.5m	2.7	5.5

	Description	Product Lifecycle	RF Primary Function	Integrated VCO	Freq Response RFmin	Freq Response RFmax	Freq Ref Inputmax	1/f Noise (10kHz Offset at 1GHz Carrier)typ	FOM-Normalized Inband PN Int-Ntyp	Is typ	Vs+ min	Vs+ max
ADF4117	Single, Integer-N 1.2 GHz PLL	PRODUCTION	Integer-N PLL	No	100M	1.2G	100M	-	-213	4.5m	2.7	5.5
ADF4118	Single, Integer-N, 3.0 GHz PLL	PRODUCTION	Integer-N PLL	No	100M	3G	100M	-	-216	6.5m	2.7	5.5
ADF4212	Dual, Integer-N 0.5 GHz / 3.0 GHz PLL	PRODUCTION	Dual PLL, Integer-N PLL	No	60M	2.7G	115M	-	-	13m	2.7	5.5
AD809	155 MHz Frequency Synthesizer	PRODUCTION	PLO (Fixed Integer)	Yes	155.5M	155.5M	19.44M	-	-	17m	4.5	5.5
HMC440	SMT 2.8 GHz Integer-N Synthesizer (N = 2 - 32)	RECOMMENDED FOR NEW DESIGNS	Integer-N PLL	No	10M	2.8G	1.3G	-142	-233	250m	4.75	5.25
HMC535	Phase-Locked Oscillator SMT, 14.7 - 15.4 GHz	RECOMMENDED FOR NEW DESIGNS	PLO (Fixed Integer)	Yes	14.7G	15.4G	240.6M	-	-110	340m	-	-
HMC698	7 GHz Integer-N Synthesizer SMT	RECOMMENDED FOR NEW DESIGNS	Integer-N PLL	No	80M	7G	1.3G	-151	-233	310m	4.75	5.25
HMC699	7 GHz Integer-N Synthesizer SMT	RECOMMENDED FOR NEW DESIGNS	Integer-N PLL	No	160M	7G	1.3G	-151	-233	310m	4.75	5.25

Real-Time Clocks

Parts	Description	Product Lifecycle	Interface	VSUPPLY	Date/ Time Format	Features	Time Keeping Current typ	Functions
MAX31334	Ultra-Low-Power Real Time Clock with Integrated Power Switch	RECOMMENDED FOR NEW DESIGNS	Serial I2C	1.6 to 5.5	YY-MM-DD/ HH:MM:SS	-	70	RTC
MAX31331	Ultra-Low-Power, I2C Real-Time Clock and Power Management	RECOMMENDED FOR NEW DESIGNS	Serial I2C	1.6 to 5.5	YY-MM-DD/ HH:MM:SS	battery backup, Event Detection , Low Power, Square-Wave Output, Timestamp, Trickle Charger	65	RTC
MAX31329	Low-Current, Real-Time Clock with I2C, Power Management, and Integrated Crystal	RECOMMENDED FOR NEW DESIGNS	Serial I2C	1.6 to 5.5	YY-MM-DD/ HH:MM:SS	battery backup, Event Detection , External Clock Input, Low Power, Square-Wave Output, Trickle Charger	240	RTC
MAX31328	±3.5ppm, I2C RTC with Integrated Crystal and Power Management	RECOMMENDED FOR NEW DESIGNS	Serial I2C	2.3 to 5.5	YY-MM-DD/ HH:MM:SS, YY-MM-DD/ HH:MM:SS:hh, YYYY-MM-DD/ HH:MM:SS	SOIC Package with Integrated Crystal, Square-Wave Output, TCXO	660	RTC
MAX31343	±5ppm, I2C Real-Time Clock with Integrated MEMS Oscillator	PRODUCTION	Serial I2C	1.6 to 5.5	YY-MM-DD/ HH:MM:SS, YY-MM-DD/ HH:MM:SS:hh, YYYY-MM-DD/ HH:MM:SS	Power Fail Output, Square-Wave Output, TCXO, Trickle Charger	940	RTC
MAX31341B	Low-Current, Real-Time Clock with I2C Interface and Power Management	PRODUCTION	Serial I2C	1.6, 3, 3.6	YY-MM-DD/ HH:MM:SS, YY-MM-DD/ HH:MM:SS:hh, YYYY-MM-DD/ HH:MM:SS	Low Power, Power Fail Output, Square-Wave Output, Trickle Charger	180	RTC
MAX31341C	Low-Current, Real-Time Clock with I2C Interface and Power Management	PRODUCTION	Serial I2C	1.6V to 3.6V	YY-MM-DD/ HH:MM:SS, YY-MM-DD/ HH:MM:SS:hh, YYYY-MM-DD/ HH:MM:SS	Low Power, Power Fail Output, Square-Wave Output, Trickle Charger	180	RTC
MAX31342	Low-Current, Real-Time Clock with I2C Interface	PRODUCTION	Serial I2C	1.6, 3, 3.6	YY-MM-DD/ HH:MM:SS, YY-MM-DD/ HH:MM:SS:hh, YYYY-MM-DD/ HH:MM:SS	Low Power, Power Fail Output, Square-Wave Output	150	RTC
DS1339B	Low-Current, I2C, Serial Real-Time Clock for High-ESR Crystals	PRODUCTION	Serial I2C	1.71 to 5.5	YY-MM-DD/ HH:MM:SS	AGC, Low Power, Square-Wave Output, Trickle Charger	300	RTC
DS1339A	Low-Current, I ² C, Serial Real-Time Clock	PRODUCTION	Serial I2C	1.71 to 5.5	YY-MM-DD/ HH:MM:SS	AGC, Low Power, Square-Wave Output, Trickle Charger	300	RTC
DS1683	Total-Elapsed-Time and Event Recorder with Alarm	PRODUCTION	Serial I2C	2.5 to 5.5	Binary	Event Recorder	-	Elapsed Time Counter
DS1308	Low-Current I ² C RTC with 56-Byte NV RAM	PRODUCTION	Serial I2C	1.71 to 5.5	YY-MM-DD/ HH:MM:SS	AGC, External Clock Input, Low Power, Square-Wave Output	250	RTC
DS3232M	±5ppm, I ² C Real-Time Clock with SRAM	PRODUCTION	Serial I2C	2.3 to 4.5	YY-MM-DD/ HH:MM:SS	µP Reset, Power Fail Output, SOIC Package with Integrated Crystal, Square-Wave Output, TCXO	1800	RTC

	Description	Product Lifecycle	Interface	VSUPPLY	Date/ Time Format	Features	Time Keeping Current	typ	Functions
DS1347	Low-Current, SPI-Compatible Real-Time Clock	PRODUCTION	Serial SPI	2.0 to 5.5	YYYY-MM-DD/ HH:MM:SS	AGC, Low Power	350		RTC
DS1343	Low-Current SPI/3-Wire RTCs	PRODUCTION	3-Wire, Serial SPI	1.71 to 5.5	YY-MM-DD/ HH:MM:SS	AGC, Low Power, Periodic Interrupt, Power Fail Output, Square-Wave Output, Trickle Charger	250		RTC
DS1344	Low-Current SPI/3-Wire RTCs	PRODUCTION	3-Wire, Serial SPI	1.71 to 5.5	YY-MM-DD/ HH:MM:SS	AGC, Low Power, Square-Wave Output	250		RTC
DS3231M	±5ppm, I2C Real-Time Clock	PRODUCTION	Serial I2C	2.3 to 5.5	YY-MM-DD/ HH:MM:SS	µP Reset, Power Fail Output, SOIC Package with Integrated Crystal, Square-Wave Output, TCXO	2000		RTC
DS1341	Low-Current I²C RTCs for High-ESR Crystals	PRODUCTION	Serial I2C	1.8, 5.5	YY-MM-DD/ HH:MM:SS	AGC, External Clock Input, Low Power, Periodic Interrupt, Square-Wave Output	220		RTC
DS1342	Low-Current I²C RTCs for High-ESR Crystals	PRODUCTION	Serial I2C	1.8, 5.5	YY-MM-DD/ HH:MM:SS	AGC, External Clock Input, Low Power, Square-Wave Output	250		RTC
DS1372	I²C, 32-Bit, Binary Counter Clock with 64-Bit ID	PRODUCTION	Serial I2C	1.3 to 5.5	Binary	Serial Number, Square-Wave Output	400		Elapsed Time Counter, Watchdog Timekeeper
DS3234	Extremely Accurate SPI Bus RTC with Integrated Crystal and SRAM	PRODUCTION	Serial SPI	2.0 to 5.5	YY-MM-DD/ HH:MM:SS	µP Reset, Power Fail Output, SOIC Package with Integrated Crystal, Square-Wave Output, TCXO	1500		RTC
DS3232	Extremely Accurate I²C RTC with Integrated Crystal and SRAM	PRODUCTION	Serial I2C	2.3 to 5.5	YY-MM-DD/ HH:MM:SS	µP Reset, Power Fail Output, SOIC Package with Integrated Crystal, Square-Wave Output, TCXO	1500		RTC
DS1388	I²C RTC/Supervisor with Trickle Charger and 512 Bytes EEPROM	PRODUCTION	Serial I2C	2.7 to 5.5	YY-MM-DD/ HH:MM:SS:hh	µP Reset, Trickle Charger	410		RTC, Watchdog Timekeeper
DS3231	Extremely Accurate I²C-Integrated RTC/TCXO/Crystal	PRODUCTION	Serial I2C	2.3 to 5.5	YY-MM-DD/ HH:MM:SS	µP Reset, Power Fail Output, SOIC Package with Integrated Crystal, Square-Wave Output, TCXO	840		RTC
DS1390	Low-Voltage SPI/3-Wire RTCs with Trickle Charger	PRODUCTION	Serial SPI	1.71, 3, 3.3, 5.5	YY-MM-DD/ HH:MM:SS:hh	Square-Wave Output, Trickle Charger	500		RTC
DS1391	Low-Voltage SPI/3-Wire RTCs with Trickle Charger	PRODUCTION	Serial SPI	1.71 to 5.5	YY-MM-DD/ HH:MM:SS:hh	µP Reset, Trickle Charger	500		RTC
DS1392	Low-Voltage SPI/3-Wire RTCs with Trickle Charger	PRODUCTION	3-Wire	1.71 to 5.5	YY-MM-DD/ HH:MM:SS:hh	Periodic Interrupt, Square-Wave Output, Trickle Charger	500		RTC
DS1393	Low-Voltage SPI/3-Wire RTCs with Trickle Charger	PRODUCTION	3-Wire	1.71 to 5.5	YY-MM-DD/ HH:MM:SS:hh	µP Reset, Periodic Interrupt, Square-Wave Output, Trickle Charger	500		RTC

	Description	Product Lifecycle	Interface	VSUPPLY	Date/ Time Format	Features	Time Keeping Current typ	Functions
DS1394	Low-Voltage SPI/3-Wire RTCs with Trickle Charger	PRODUCTION	Serial SPI	3.3, 5	YY-MM-DD/ HH:MM:SS:hh	Square-Wave Output, Trickle Charger	500	RTC
DS12CR887	RTCs with Constant-Voltage Trickle Charger	PRODUCTION	Multiplexed	2.97 to 5.5	YY-MM-DD/ HH:MM:SS	Battery + Crystal, Periodic Interrupt, Square-Wave Output	-	RTC
DS12R885	RTCs with Constant-Voltage Trickle Charger	PRODUCTION	Multiplexed	2.97 to 5.5	YY-MM-DD/ HH:MM:SS	Periodic Interrupt, Square-Wave Output	800	RTC
DS1340	I ² C RTC with Trickle Charger	PRODUCTION	Serial I2C	1.71 to 5.5	YY-MM-DD/ HH:MM:SS	Square-Wave Output, Trickle Charger	800	RTC
DS1340C	I ² C RTC with Trickle Charger	PRODUCTION	Serial I2C	1.71 to 5.5	YY-MM-DD/ HH:MM:SS	SOIC Package with Integrated Crystal, Square-Wave Output, Trickle Charger	800	RTC
DS1375	I ² C Digital Input RTC with Alarm	PRODUCTION	Serial I2C	1.7 to 5.5	YY-MM-DD/ HH:MM:SS	-	-	RTC
DS1374	I ² C, 32-Bit Binary Counter Watchdog RTC with Trickle Charger and Reset Input/Output	PRODUCTION	Serial I2C	1.7 to 5.5	Binary	μP Reset, Periodic Interrupt, SOIC Package with Integrated Crystal, Trickle Charger	400	Elapsed Time Counter, Watchdog Timekeeper
DS1374C	I ² C, 32-Bit Binary Counter Watchdog RTC with Trickle Charger and Reset Input/Output	PRODUCTION	Serial I2C	1.7 to 5.5	Binary	μP Reset, Periodic Interrupt, SOIC Package with Integrated Crystal, Trickle Charger	400	Elapsed Time Counter, Watchdog Timekeeper
DS1374U	I ² C, 32-Bit Binary Counter Watchdog RTC with Trickle Charger and Reset Input/Output	PRODUCTION	Serial I2C	1.7 to 5.5	Binary	μP Reset, Periodic Interrupt, SOIC Package with Integrated Crystal, Trickle Charger	400	Elapsed Time Counter, Watchdog Timekeeper
DS1501	Y2K-Compliant Watchdog Real-Time Clocks	PRODUCTION	Byte-wide	3 to 5.5	YYYY-MM-DD/ HH:MM:SS	μP Reset, Kick-Start, Periodic Interrupt, Square-Wave Output, Wake-up	270	RTC, Watchdog Timekeeper
DS1511	Y2K-Compliant Watchdog Real-Time Clocks	PRODUCTION	Byte-wide	3 to 5.5	YYYY-MM-DD/ HH:MM:SS	μP Reset, Battery + Crystal, Kick-Start, Periodic Interrupt, Square-Wave Output, Wake-up	270	RTC, Watchdog Timekeeper
DS1337	I ² C Serial Real-Time Clock	PRODUCTION	Serial I2C	1.8 to 5.5	YY-MM-DD/ HH:MM:SS	Square-Wave Output	425	RTC
DS1337C	I ² C Serial Real-Time Clock	PRODUCTION	Serial I2C	1.8 to 5.5	YY-MM-DD/ HH:MM:SS	SOIC Package with Integrated Crystal, Square-Wave Output	425	RTC
DS1338	I ² C RTC with 56-Byte NV RAM	PRODUCTION	Serial I2C	1.71 to 5.5	YY-MM-DD/ HH:MM:SS	Square-Wave Output	800	RTC
DS1338C	I ² C RTC with 56-Byte NV RAM	PRODUCTION	Serial I2C	1.71 to 5.5	YY-MM-DD/ HH:MM:SS	SOIC Package with Integrated Crystal, Square-Wave Output	800	RTC
DS1371	I ² C, 32-Bit Binary Counter Watchdog Clock	PRODUCTION	Serial I2C	1.7 to 5.5	Binary	Periodic Interrupt	800	Elapsed Time Counter, Watchdog Timekeeper

	Description	Product Lifecycle	Interface	VSUPPLY	Date/ Time Format	Features	Time Keeping Current	typ	Functions
DS1672	I ² C 32-Bit Binary Counter RTC	PRODUCTION	Serial I2C	1.8 to 5.5	Binary	Trickle Charger	425		Elapsed Time Counter, RTC
DS1744	Y2K-Compliant, Nonvolatile Timekeeping RAMs	PRODUCTION	Bytewide	3.3, 5	YYYY-MM-DD/ HH:MM:SS	Battery + Crystal, PowerCap Package	-		RTC
DS1244	256k NV SRAM with Phantom Clock	PRODUCTION	Bytewide, Phantom Clock	3.3, 5	YY-MM-DD/ HH:MM:SS:hh	PowerCap Package	-		RTC
DS1685	3V/5V Real-Time Clock	PRODUCTION	Multiplexed	3, 5	YYYY-MM-DD/ HH:MM:SS	Kick-Start, Periodic Interrupt, RAM Clear Interrupt, Serial Number, Square-Wave Output, Wake-up	500		RTC
DS1687	3V/5V Real-Time Clock	PRODUCTION	Multiplexed	3, 5	YYYY-MM-DD/ HH:MM:SS	Battery + Crystal, Kick-Start, Periodic Interrupt, RAM Clear Interrupt, Serial Number, Square-Wave Output, Wake-up	-		RTC
DS1558	Watchdog Clocks with NV RAM Control	PRODUCTION	Bytewide	-	YYYY-MM-DD/ HH:MM:SS	μP Reset, Periodic Interrupt, Power Fail Output	300		NV SRAM Control, RTC, Watchdog Timekeeper
DS12885	Real-Time Clocks	PRODUCTION	Multiplexed	5	YY-MM-DD/ HH:MM:SS	Periodic Interrupt, Square-Wave Output	225		RTC
DS12887	Real-Time Clocks	PRODUCTION	Multiplexed	5	YY-MM-DD/ HH:MM:SS	Battery + Crystal, Periodic Interrupt, Square-Wave Output	-		RTC
DS12887A	Real-Time Clocks	PRODUCTION	Multiplexed	5	YY-MM-DD/ HH:MM:SS	Battery + Crystal, Periodic Interrupt, Square-Wave Output	-		RTC
DS12C887	Real-Time Clocks	PRODUCTION	Multiplexed	5	YYYY-MM-DD/ HH:MM:SS	Battery + Crystal, Periodic Interrupt, Square-Wave Output	-		RTC
DS12C887A	Real-Time Clocks	PRODUCTION	Multiplexed	5	YYYY-MM-DD/ HH:MM:SS	Battery + Crystal, Periodic Interrupt, Square-Wave Output	-		RTC
DS1339	I ² C Serial Real-Time Clock	PRODUCTION	Serial I2C	1.8 to 5.5	YY-MM-DD/ HH:MM:SS	Low Power, Square-Wave Output, Trickle Charger	400		RTC
DS1339C	I ² C Serial Real-Time Clock	PRODUCTION	Serial I2C	1.8 to 5.5	YY-MM-DD/ HH:MM:SS	Low Power, Square-Wave Output, Trickle Charger	400		RTC
DS1305	Serial Alarm Real-Time Clock	PRODUCTION	3-Wire, Serial SPI	2 to 5.5	YY-MM-DD/ HH:MM:SS	Periodic Interrupt, Power Fail Output, Trickle Charger	450		RTC
DS17285	3V/5V Real-Time Clocks	PRODUCTION	Multiplexed	3, 5	YYYY-MM-DD/ HH:MM:SS	Kick-Start, Periodic Interrupt, RAM Clear Interrupt, Serial Number, Square-Wave Output, Wake-up	500		RTC

	Description	Product Lifecycle	Interface	VSUPPLY	Date/ Time Format	Features	Time Keeping Current	typ	Functions
DS17287	3V/5V Real-Time Clocks	PRODUCTION	Multiplexed	3, 5	YYYY-MM-DD/ HH:MM:SS	Battery + Crystal, Kick-Start, Periodic Interrupt, RAM Clear Interrupt, Serial Number, Square-Wave Output, Wake-up	500		RTC
DS17485	3V/5V Real-Time Clocks	PRODUCTION	Multiplexed	3, 5	YYYY-MM-DD/ HH:MM:SS	Kick-Start, Periodic Interrupt, RAM Clear Interrupt, Serial Number, Square-Wave Output, Wake-up	500		RTC
DS17487	3V/5V Real-Time Clocks	PRODUCTION	Multiplexed	3, 5	YYYY-MM-DD/ HH:MM:SS	Battery + Crystal, Kick-Start, Periodic Interrupt, RAM Clear Interrupt, Serial Number, Square-Wave Output, Wake-up	500		RTC
DS17885	3V/5V Real-Time Clocks	PRODUCTION	Multiplexed	3, 5	YYYY-MM-DD/ HH:MM:SS	Kick-Start, Periodic Interrupt, RAM Clear Interrupt, Serial Number, Square-Wave Output, Wake-up	500		RTC
DS17887	3V/5V Real-Time Clocks	PRODUCTION	Multiplexed	3, 5	YYYY-MM-DD/ HH:MM:SS	Battery + Crystal, Kick-Start, Periodic Interrupt, RAM Clear Interrupt, Serial Number, Square-Wave Output, Wake-up	500		RTC
DS1682	Total-Elapsed-Time Recorder with Alarm	PRODUCTION	2-Wire	2.5 to 5.5	Binary	Event Recorder	-		Elapsed Time Counter
DS1678	Real-Time Event Recorder	PRODUCTION	Serial I2C	4.5 to 5.5	YY-MM-DD/ HH:MM:SS	Event Recorder	300		RTC
DS1248	1024K NV SRAM with Phantom Clock	PRODUCTION	Byte-wide, Phantom Clock	3.3, 5	YY-MM-DD/ HH:MM:SS:hh	PowerCap Package	-		RTC
DS1251	4096K NV SRAM with Phantom Clock	RECOMMENDED FOR NEW DESIGNS	Byte-wide, Phantom Clock	3.3, 5	YY-MM-DD/ HH:MM:SS:hh	PowerCap Package	-		RTC
DS1747	Y2K-Compliant, Nonvolatile Timekeeping RAMs	PRODUCTION	Byte-wide	3.3, 5	YYYY-MM-DD/ HH:MM:SS	Battery + Crystal, PowerCap Package	-		RTC
DS1306	Serial Alarm Real-Time Clock	PRODUCTION	3-Wire, Serial SPI	2 to 5.5	YY-MM-DD/ HH:MM:SS	Periodic Interrupt, Square-Wave Output, Trickle Charger	450		RTC
DS1554	256k Nonvolatile, Y2K-Compliant Timekeeping RAM	PRODUCTION	Byte-wide	3.3, 5	YYYY-MM-DD/ HH:MM:SS	µP Reset, Battery + Crystal, Periodic Interrupt, PowerCap Package	-		RTC, Watchdog Timekeeper
DS1556	1M, Nonvolatile, Y2K-Compliant Timekeeping RAM	PRODUCTION	Byte-wide	3.3, 5	YYYY-MM-DD/ HH:MM:SS	µP Reset, Battery + Crystal, Periodic Interrupt, PowerCap Package	-		RTC, Watchdog Timekeeper
DS1557	4Meg, Nonvolatile, Y2K-Compliant Timekeeping RAM	PRODUCTION	Byte-wide	3.3, 5	YYYY-MM-DD/ HH:MM:SS	µP Reset, Battery + Crystal, Periodic Interrupt, PowerCap Package	-		RTC, Watchdog Timekeeper
DS1746	Y2K-Compliant, Nonvolatile Timekeeping RAMs	PRODUCTION	Byte-wide	3.3, 5	YYYY-MM-DD/ HH:MM:SS	Battery + Crystal, PowerCap Package	-		RTC

	Description	Product Lifecycle	Interface	VSUPPLY	Date/ Time Format	Features	Time Keeping Current	typ	Functions
DS1670	Portable System Controller	PRODUCTION	3-Wire	3.3	YY-MM-DD/ HH:MM:SS	µP Reset, A to D Converter, Periodic Interrupt, Power Fail Output	300		NV SRAM Control, RTC
DS1673	Portable System Controller	PRODUCTION	3-Wire	3, 5	YY-MM-DD/ HH:MM:SS	µP Reset, A to D Converter, Periodic Interrupt, Power Fail Output	300		NV SRAM Control, RTC
DS1307	64 x 8, Serial, I²C Real-Time Clock	PRODUCTION	Serial I2C	5	YY-MM-DD/ HH:MM:SS	Square-Wave Output	300		RTC
DS1302	Trickle-Charge Timekeeping Chip	PRODUCTION	3-Wire	2 to 5.5	YY-MM-DD/ HH:MM:SS	Trickle Charger	200		RTC
DS1315	Phantom Time Chip	PRODUCTION	Phantom Clock	3, 5	YY-MM-DD/ HH:MM:SS:hh	CMOS timekeeper, nonvolatile memory controller	400		NV SRAM Control, RTC
DS1243	64K NV SRAM with Phantom Clock	PRODUCTION	Byte-wide, Phantom Clock	5	YY-MM-DD/ HH:MM:SS:hh	Battery + Crystal	-		RTC
DS2417	1-Wire Time Chip With Interrupt	PRODUCTION	1-Wire	2.5 to 5.5	Binary	Serial Number, Wake-up	200		Elapsed Time Counter, RTC

Silicon Oscillators

Parts	Description	Product Lifecycle	Number of Outputs	Program Method	Frequency Range	Frequency Accuracy	typ	Frequency Temp Drift	typ
MAX31091	Automotive Temperature Range Spread-Spectrum EconOscillator	PRODUCTION	1	Serial I2C	Up to 66.6MHz		-		-
LTC6995-1	TimerBlox: Long Timer, Low Frequency Oscillator	PRODUCTION	1	Resistor	1.024ms to 9.54 hours		2.2		5m
LTC6995-2	TimerBlox: Long Timer, Low Frequency Oscillator	PRODUCTION	1	Resistor	1.024ms to 9.54 hours		2.2		5m
LTC6991	TimerBlox: Resettable, Low Frequency Oscillator	PRODUCTION	1	Resistor	1ms to 9.5 hours		800m		50
LTC6990	TimerBlox: Voltage Controlled Silicon Oscillator	PRODUCTION	1	Resistor	488Hz to 2MHz		2		50
LTC6909	1 to 8 Output, Multiphase Silicon Oscillator with Spread Spectrum Modulation	PRODUCTION	8	Resistor	12.5kHz to 6.67MHz		500m		40
LTC6930-4.19	32.768kHz to 8.192MHz Precision μ Power Oscillators	PRODUCTION	1	Fixed Frequency	32kHz, 65kHz, 131kHz, 262kHz, 524kHz, 1.048MHz, 2.097MHz, 4.194MHz (fixed)		90m		100 μ
LTC6930-5	32.768kHz to 8.192MHz Precision μ Power Oscillators	PRODUCTION	1	Fixed Frequency	39kHz, 78kHz, 312kHz, 625kHz, 1.25MHz, 2.5MHz, 5MHz (fixed)		90m		100 μ
LTC6930-7.37	32.768kHz to 8.192MHz Precision μ Power Oscillators	PRODUCTION	1	Fixed Frequency	57kHz, 115kHz, 230kHz, 460kHz, 921kHz, 1.84MHz, 3.68MHz, 7.37MHz (fixed)		90m		100 μ
LTC6930-8	32.768kHz to 8.192MHz Precision μ Power Oscillators	PRODUCTION	1	Fixed Frequency	62.5kHz, 125kHz, 250kHz, 500kHz, 1MHz, 2MHz, 4MHz, 8MHz (fixed)		90m		100 μ
LTC6930-8.19	32.768kHz to 8.192MHz Precision μ Power Oscillators	PRODUCTION	1	Fixed Frequency	64kHz, 128kHz, 256kHz, 512kHz, 1.024MHz, 2.048MHz, 4.096MHz, 8.192MHz (fixed)		90m		100 μ
DS1091L	Automotive Temperature Range Spread-Spectrum EconOscillator™	PRODUCTION	1	Serial I2C	Up to 66.6MHz		-		-
LTC6908-1	Resistor Set SOT-23 Oscillator with Spread Spectrum Modulation	PRODUCTION	2	Resistor	50kHz to 10MHz		1.5		40
LTC6908-2	Resistor Set SOT-23 Oscillator with Spread Spectrum Modulation	PRODUCTION	2	Resistor	50kHz to 10MHz		1.5		40
LTC6907	Micropower, 40kHz to 4MHz Resistor Set Oscillator in SOT-23	NOT RECOMMENDED FOR NEW DESIGNS	1	Resistor	40kHz - 4MHz		250m		50
LTC6906	Micropower, 10kHz to 1MHz Resistor Set Oscillator in SOT-23	PRODUCTION	1	Resistor	10kHz - 1MHz		250m		50

	Description	Product Lifecycle	Number of Outputs	Program Method	Frequency Range	Frequency Accuracy	typ	Frequency Temp Drift	typ
LTC6905	17MHz to 170MHz Resistor Set SOT-23 Oscillator	PRODUCTION	1	Resistor	17MHz to 170MHz	500m		20	
LTC6905-100	Fixed Frequency SOT-23 Oscillator	PRODUCTION	1	Fixed Frequency	100MHz, 50MHz or 25MHz (fixed)	500m		20	
LTC6905-133	Fixed Frequency SOT-23 Oscillator	PRODUCTION	1	Fixed Frequency	133MHz, 66.7MHz or 33.3MHz (fixed)	500m		20	
LTC6905-80	Fixed Frequency SOT-23 Oscillator	PRODUCTION	1	Fixed Frequency	80MHz, 40MHz or 20MHz (fixed)	500m		20	
LTC6905-96	Fixed Frequency SOT-23 Oscillator	PRODUCTION	1	Fixed Frequency	96MHz, 48MHz or 24MHz (fixed)	500m		20	
DS1088	Fixed-Frequency EconOscillator™	PRODUCTION	1	Serial I2C	Up to 133MHz	-		-	
DS1088L	Fixed-Frequency EconOscillator™	PRODUCTION	1	Serial I2C	Up to 133MHz	-		-	
MAX7377	Silicon Oscillator with Low-Power Frequency Switching	PRODUCTION	1	Serial I2C	Up to 9.99MHz	-		-	
DS1089L	3.3V Center Spread-Spectrum EconOscillator™	PRODUCTION	1	Serial I2C	Up to 66MHz	-		-	
DS1090	Low-Frequency, Spread-Spectrum EconOscillator	PRODUCTION	1	Serial I2C	Up to 8MHz	-		-	
DS1094L	Multiphase Spread-Spectrum EconOscillator	PRODUCTION	1	Serial I2C	Up to 2MHz	-		-	
DS1099	Low-Frequency Dual EconOscillator	PRODUCTION	1	Serial I2C	Up to 1.048MHz	-		-	
LTC6903	1kHz – 68MHz Serial Port Programmable Oscillator	PRODUCTION	1	Serial SPI	1kHz - 68MHz	1.1		10	
LTC6904	1kHz - 68MHz Serial Port Programmable Oscillator	PRODUCTION	1	Serial I2C	1kHz - 68MHz	1.1		10	
DS1086L	3.3V Spread-Spectrum EconOscillator	PRODUCTION	1	Serial I2C	Up to 66MHz	-		-	
MAX7375	3-Pin Silicon Oscillator	PRODUCTION	1	Serial I2C	Up to 9.99MHz	-		-	
DS1087L	3.3V Spread-Spectrum EconOscillator	PRODUCTION	1	Serial I2C	Up to 66MHz	-		-	
DS1077	EconOscillator™/Divider	PRODUCTION	1	Serial I2C	Up to 66MHz	-		-	

	Description	Product Lifecycle	Number of Outputs	Program Method	Frequency Range	Frequency Accuracy	typ	Frequency Temp Drift	typ
DS1077L	3V EconOscillator/Divider	PRODUCTION	1	Serial I2C	Up to 66.6MHz		-		-
LTC6902	Multiphase Oscillator with Spread Spectrum Frequency Modulation	PRODUCTION	4	Resistor	5kHz - 20MHz		1.5		40
DS1086	Spread-Spectrum EconOscillator	PRODUCTION	1	Serial I2C	Up to 133MHz		-		-
DS1085	EconOscillator Frequency Synthesizer	PRODUCTION	1	Serial I2C	Up to 133MHz		-		-
LTC6900	Low Power, 1kHz to 20MHz Resistor Set SOT-23 Oscillator	PRODUCTION	1	Resistor	1kHz - 20MHz		1.5		40
LTC1799	1kHz to 33MHz Resistor Set SOT-23 Oscillator	PRODUCTION	1	Resistor	1kHz - 33MHz		1.5		40

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Якутск (4112)23-90-97
Ярославль (4852)69-52-93

Россия +7(495)268-04-70

Казахстан +7(7172)727-132

Киргизия +996(312)96-26-47

эл.почта: agu@nt-rt.ru || сайт: <https://analog.nt-rt.ru/>