

While other companies are reducing your choices in MSI, **Aeroflex Colorado Springs** continues to expand your MSI options with more devices, faster speeds, and lower power.





DESCRIPTION	AEROFLEX		INTERSIL		STMICRO		NATIONAL		TI	
	Part #	SMD #	Part #	SMD #	Part #	SMD #	Part #	SMD #	Part #	SMD #
Adders 4-bit parity binary full	UT54ACS283	5962-96584	HCS283MS**	5962-95811						
	UT54ACTS283	5962-96585	HCTS283MS**	5962-95774			54ACT283 ‡			
Buffers hex non-inverting	UT54ACS34	5962-96530								
	UT54ACTS34	5962-96531								
Buffers octal with inverted 3-state outputs	UT54ACS240	5962-96568	HCS240MS	5962-95809	54AC240	5962-87550	54AC240 ‡	5962-87550	54AC240	5962-87550
	UT54ACTS240	5962-96569	HCTS240MS**	5962-95772	54ACT240	5962-87759	54ACT240 ‡	5962-87759	54ACT240	5962-87759
							54ACQ240 ‡	5962-87550	54ACQ240	5962-87550
Buffers octal non-inverting with 3-state outputs									54AC241	Databook†
							54ACT241 ‡	5962-89847	54ACT241	5962-89847
Buffers octal non-inverting Quiet Series with 3-state outputs									54ACTQ241 ‡	5962-92185
Buffers quadruple with 3-state outputs									54AC125 ‡	5962-93253
Buffers/line drivers hex with 3-state outputs	UT54ACS365	5962-96586								
	UT54ACTS365	5962-96587	HCTS365MS**	5962-95775						
Buffers/line drivers octal with 3-state outputs	UT54ACS244	5962-96570	HCS244MS	5962-95731	54AC244	5962-87552	54AC244 ‡	5962-87552	54AC244	5962-87552
	UT54ACTS244	5962-96571	HCTS244MS**	5962-95744	54ACT244	5962-87760	54ACT244 ‡	5962-87760	54ACT244	5962-87760
Buffers/line drivers octal with non-inverting 3-state outputs									54ACT244 ‡	5962-92147
Buffers/line drivers octal Quiet Series with non-inverting 3-state outputs									54ACTQ244 ‡	5962-92186
									54ACQ244 ‡	5962-87552
Clocks up-down synchronous 4-bit	UT54ACS193	5962-96566	HCS193MS**	5962-95788						
	UT54ACTS193	5962-96567	HCTS193MS	5962-95757						
	UT54ACTS193E*	5962-96568								
Comparators 4-bit	UT54ACS85	5962-96536								
	UT54ACTS85	5962-96537	HCTS85MS**	5962-95768						
Comparators magnitude 8-bit with enable									54AC520 ‡	5962-90916
									54AC521 ‡	5962-90985
Counters 4-bit binary up-down	UT54ACS169	5962-96560							54AC169 ‡	5962-91603
	UT54ACTS169	5962-96561							54ACT169 ‡	5962-91603
Counters 4-bit synchronous	UT54ACS163	5962-96554	HCS163MS	5962-95807	54AC163	5962-89582	54AC163 ‡	5962-89582		
	UT54ACTS163	5962-96555	HCTS163MS**	5962-95743	54ACT163	5962-91723	54ACT163 ‡	5962-91723	54ACT163	Databook†
Counters binary 4-bit synchronous									54AC161 ‡	5962-89561
Counters binary 4-bit synchronous with asynchronous reset									54ACT161 ‡	5962-91722
Counters up-down BCD synchronous 4-bit	UT54ACS190	5962-96562	HCS190MS**	5962-95808						
	UT54ACTS190	5962-96563	HCTS190MS**	5962-95771						
Counters up-down binary synchronous 4-bit	UT54ACS191	5962-96564	54AC191	5962-89749	54AC191	5692-89749	54AC191 ‡	5962-89749	54AC191	Databook†
	UT54ACTS191	5962-96565	HCTS191MS**	5962-95756	54ACT191	5692-04228				
Data selectors/multiplexers 1 to 8	UT54ACS151	5962-96548	HCS151	5962-95728	54AC151	5962-87691	54AC151 ‡	5962-87691		
	UT54ACTS151	5962-96549	54ACT151	5962-88756	54ACT151	5962-88756	54ACT151 ‡	5962-88756	54ACT151	Databook†
Data selectors/multiplexers 1-input with 3-state outputs									54AC251 ‡	5962-87692



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Data selectors/multiplexers quadruple 2-input							54AC158 ‡	5962-89729	54AC158	Databook†
Data selectors/multiplexers quadruple 2-input with 3-state outputs							54AC257 54ACT257 ‡	5962-89689	54ACT257	Databook†
Decoders/demultiplexers dual 2-line to 4-line	UT54ACS139	5962-96546	HCS139MS	5962-95804	54AC139	5962-87623	54AC139 ‡	5962-87623	54AC139	Databook†
	UT54ACTS139	5962-96547	HCST139MS	5962-95753	54ACT139	5962-87553	54ACT139 ‡	5962-87553	54ACT139	Databook†
Decoders/demultiplexers 3-line to 8-line	UT54ACS138	5962-96544	HCS138MS	5962-95727	54AC138	5962-87622	54AC138 ‡	5962-87622	54AC138	Databook†
	UT54ACTS138	5962-96545	HCTS138MS	5962-95740	54ACT138	5962-87554	54ACT138 ‡	5962-87554	54ACT138	Databook†
Drivers with 3-state outputs	UT54ACS541	5962-96594	HCTS541MS**	5962-96726	54AC541	5962-88706	54AC541 ‡	5962-88706	54AC541	Databook†
	UT54ACTS541	5962-96595			54ACT541	5962-89795	54ACT541 ‡	5962-96829		
	UT54ACTS541E*	5962-96595								
Drivers octal with inverted 3-state outputs	UT54ACS540	5962-96592	HCTS540MS	5962-95776			54AC540 ‡	5962-87695		
	UT54ACTS540	5962-96593								
Drivers octal Quiet Series with 3-state outputs							54ACTQ541 ‡	5962-96829		
EDACs	UT54ACTS630	5962-06239								
FLIP-FLOPs 4-bit D							54AC175 ‡	5962-89552		
							54ACT175 ‡	5962-89693		
FLIP FLOPs 8-bit D							54ACT825 ‡	5962-91611		
FLIP-FLOPs 8-bit D with 3-state outputs			HCTS574**	5962-95758			54AC574 ‡	5962-96773	54AC574	5962-96773
							4ACT574 ‡	5962-89601	54ACT574	Databook†
FLIP-FLOPs dual D with clear and preset	UT54ACS74	5962-96534	HCS74MS**	5962-95782	54AC74	5962-88520	54AC74 ‡	5962-88520	54AC74	5962-88520
	UT54ACTS74	5962-96535	HCTS74MS	5962-95763	54ACT74	5962-87525	54ACT74 ‡	5962-87525	54ACT74	5962-87525
	UT54ACTS74E*	5962-96534								
FLIP-FLOPs dual J-K	UT54ACS109	5962-96540	HCS109MS	5962-95784			54AC109 ‡	5962-89551	54AC109	Databook†
	UT54ACS109E*	5962-96540								
	UT54ACTS109	5962-96541	HCTS109MS**	5962-95769			54ACT109 ‡	5962-88534	54ACT109	Databook†
FLIP-FLOPs hex D with master reset							54AC174 ‡	5962-87626		
							54ACT174 ‡	5962-87757	54ACT174	Databook†
FLIP-FLOPs octal D with clear	UT54ACS273	5962-96578	HCS273MS	5962-95791	54AC273	5962-87756	54AC273 ‡	5962-87756	54AC273	Databook†
	UT54ACTS273	5962-96579	HCTS273MS**	5962-95764	54ACT273	5962-01527	54ACT273 ‡	5962-89735		
FLIP-FLOPs octal D with 3-state outputs	UT54ACS374	5962-96590	HCS374MS**	5962-95793	54AC374	5962-87694	54AC374 ‡	5962-87694	54AC374	5962-87694
	UT54ACTS374	5962-96591	HCTS374MS**	5962-95748	54ACT374	5962-87631	54ACT374 ‡	5962-87631	54ACT374	5962-87631
FLIP-FLOPs 4-bit D Quiet Series with reset							54ACTQ273 ‡	5962-89735		
FLIP-FLOPs 8-bit D Quiet Series with 3-state outputs							54ACTQ374 ‡	5962-92189		
FLIP-FLOPs octal D Quiet Series with 3-state outputs							54ACTQ574 ‡			
Generation circuits clock and wait-state	UT54ACTS220	5962-96753								
Generators look-ahead carry for counters	UT54ACS264	5962-96576								
	UT54ACTS264	5962-96577								
Generators/checkers 9-bit parity	UT54ACS280	5962-96582					54AC280 ‡	5962-92201		
	UT54ACTS280	5962-96583								
Hex inverters	UT54ACS04	5962-96516	HCS04MS**	5962-95725	54AC04	5962-87609	54AC04 ‡	5962-87609	54AC04	5962-87609
	UT54ACTS04	5962-96517	HCTS04MS	5962-95732	54ACT04	5962-89734	54ACT04 ‡	5962-89734	54ACT04	5962-89734



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Hex inverters with open-drain outputs							54AC05 ‡	5962-90590		
Hex inverters Schmitt trigger	UT54ACS14	5962-96524	HCS14MS**	5962-95681	54AC14	5962-87624	54AC14 ‡	5962-87624	54AC14	5962-87624
	UT54ACS14E*	5962-96524								
	UT54ACTS14	5962-96525	HCTS14MS**	5962-95719	54ACT14	5962-96813	54ACTQ14 ‡	5962-921832	54ACT14	5962-92183
	UT54ACTS14E*	5962-96525								
Latches octal D-type with 3-state outputs							54ACT573 ‡	5962-87664	54ACT573	5962-87664
Latches octal transparent with 3-state outputs	UT54ACS373	5962-96588	HCS373MS**	5962-95792	54AC373	5962-87555	54AC373 ‡	5962-87555	54AC373	5962-87555
	UT54ACTS373	5962-96589	HCTS373MS**	5962-95747	54ACT373	5962-87556	54ACT373 ‡	5962-87556	54ACT373	5962-87556
Latches quadruple S-R	UT54ACS279	5962-96580								
	UT54ACTS279	5962-96581								
Logic 4-wide AND-OR-INVERT gates	UT54ACS54	5962-96532								
	UT54ACTS54	5962-96533								
Logic dual 4-input NOR gates	UT54ACS4002	5962-96596								
	UT54ACTS4002	5962-96597	HCTS4002MS**	5962-95760						
Logic dual 4-input NAND gates	UT54ACS20	5962-96526	HCS20MS	5962-95777			54AC20 ‡	5962-87613		
	UT54ACTS20	5962-96527	HCTS20MS	5962-95733						
Logic triple 3-input NAND gates	UT54ACS10	5962-96520	HCS10MS**	5962-95777	54AC10	5962-87610	54AC10 ‡	5962-87610	54AC10	5962-87610
	UT54ACTS10	5962-96521	HCTS10MS**	5962-95765	54ACT10	5962-92182	54ACT10 ‡	5962-92182	54ACT10	5962-92182
Logic triple 3-input AND gates	UT54ACS11	5962-96522	HCS11MS	5962-95720	54AC11	5962-87611	54AC11 ‡	5962-87611	54AC11	5962-87611
	UT54ACTS11	5962-96523	HCTS11MS	5962-95721	54ACT11	5962-90772				
Logic triple 3-input NOR gates	UT54ACS27	5962-96528	HCS27MS	5962-95780						
	UT54ACTS27	5962-96529	HCTS27MS**	5962-95734						
Logic quadruple 2-input NAND gates	UT54ACS00	5962-96512	HCS00MS	5962-95724	54AC00	5962-87549	54AC00 ‡	5962-87549	54AC00	5962-87549
	UT54ACTS00	5962-96513	HCTS00MS**	5962-95637	54ACT00	5962-87699	54ACT00 ‡	5962-87699	54ACT00	5962-87699
Logic quadruple 2-input NOR gates	UT54ACS02	5962-96514	HCS02MS	5962-95679	54AC02	5962-87612	54AC02 ‡	5962-87612		
	UT54ACS02E*	5962-96514								
	UT54ACTS02	5962-96515	HCTS02MS**	5962-95682	54ACT02	5962-89791	54ACT02 ‡	5962-92181	54ACT02	Databook†
	UT54ACTS02E*	5962-96515	HCTS04HMS	5962-95732						
Logic quadruple 2-input AND gates	UT54ACS08	5962-96518	HCS08MS**	5962-95680	54AC08	5962-87615	54AC08 ‡	5962-87615	54CS08	5962-87615
	UT54ACS08E*	5962-96518								
	UT54ACTS08	5962-96519	HCTS08MS**	5962-95683	54ACT08	5962-89547	54ACT08 ‡	5962-8954701	54ACT08	5962-89547
	UT54ACTS08E*	5962-96519								
Logic quadruple 2-input OR gates							54AC32 ‡	5962-87614	54AC32	5962-87614
Logic quadruple 2-input OR gates with TTL compatible inputs			HCTS32DMS**	5962-95736						
Logic quadruple Quiet Series 2-input OR gates							54ACTQ32 ‡	5962-89736	ACT32	Databook†
Logic quadruple 2-input exclusive OR gates	UT54ACS86	5962-96538	HCS86MS	5962-95783	54AC86	5962-89550	54AC86 ‡	5962-89550	54AC86	5962-89550
	UT54ACTS86	5962-96539	HCTS86MS**	5962-95814	54ACT86	5962-90687				
Logic quadruple 2-Input NAND with Schmitt triggers	UT54ACS132	5962-96542	HCS132MS	5962-95726						
	UT54ACS132E*	5962-96542								
	UT54ACTS132	5962-96543	HCTS132MS**	5962-95739						
Multiplexers 4-input dual with 3-state outputs	UT54ACS253	5962-96574	HCS253MS**	5962-95790			54AC253 ‡	5962-87693		
	UT54ACTS253	5962-96575					54ACT253 ‡	5962-87761	54ACT253	Databook†



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	Part #	SMD #	Part #	SMD #	Part #	SMD #	Part #	SMD #	Part #	SMD #
Multiplexers 4-input dual	UT54ACS153	5962-96550	54AC153	5962-87625			54AC153 ‡	5962-87698	54AC153	Databook†
	UT54ACTS153	5962-96551	HCTS153MS	5962-95754			54ACT153 ‡	5962-87698	54ACT153	Databook†
	UT54ACTS153E*	5962-96551								
Multiplexers quadruple 2 to 1	UT54ACS157	5962-96552	HCS157MS**	5962-95805	54AC157	5962-89539	54AC157 ‡	5962-89539	54AC157	Databook†
	UT54ACTS157	5962-96553	HCTS157MS**	5962-95755	54ACT157	5962-89688	54ACT157‡	5962-89688		
	UT54ACTS157E*	5962-96553								
Registers 8-bit shift	UT54ACS164	5962-96556	HCS164MS	5962-95785						
	UT54ACS164E*	5962-96556								
	UT54ACTS164	5962-96557	HCTS164MS	5962-95663						
	UT54ACTS164E*	5962-96557								
Registers 8-bit shift parallel	UT54ACS165	5962-96558	HCS165MS	5962-95786						
	UT54ACS165E*	5962-96558								
	UT54ACTS165	5962-96559								
Registers quadruple dual-port							54ACT399 ‡	5962-90934		
Registers universal shift/storage	UT54ACS299E*	5962-06238			54AC299	5962-88754	54AC299 ‡	5962-88754		
Transceivers latchable with parity generator/checker	UT54ACS899*	5962-06240								
Transceivers octal bus with 3-state outputs	UT54ACS245	5962-96572	HCS245MS**	5962-96797	54AC245	5962-87758	54AC245 ‡	5962-87758	54AC245	5962-87758
	UT54ACTS245	5962-96573	HCTS245MS**	5962-95745	54ACT245	5962-87663	54ACT245 ‡	5962-87663	54ACT245	5962-87663
	UT54ACTS245E*	5962-96573								
Transceivers octal bus Schmitt trigger with 3-state outputs	UT54ACS245S	5962-96572								

* 3.0V to 5.0V Supply Range

** These devices have either reached end-of-life or have been obsoleted by Intersil.

‡ These devices have reached end-of-life by National.

† QML Databook (Built on a QML line but not covered by an SMD)

Full data sheets at www.aeroflex.com/logic