

EE 316 - Chip list

Chip #	Description
7400	Quadruple 2-Input Positive NANDS
7401	Quadruple 2-Input Positive NAND with Open-Collector Outputs
7402	Quadruple 2-input Positive NOR
7403	Quadruple 2-Input Positive NAND with Open-Collector Outputs
7404	Hex Inverters
7405	Hex Inverters with Open-Collector Outputs
7406	Hex Inverter Buffers/Drivers with Open-Collector High-Voltage Outputs
7407	Hex Inverter Buffers/Drivers with Open-Collector High-Voltage Outputs
7408	Quadruple 2-Input Positive ANDs
7409	Quadruple 2-Input Positive AND with Open-Collector Outputs
7410	Triple 3-Input Postive NAND
7411	Triple 3-Input Positive AND
7412	Triple 3-Input Positive NAND with Open-Collector Outputs
7413	Dual 4-input Postive NAND Schmitt-Triggers
7414	Hex Schmitt-Trigger Inverters
7416	Hex Inverter Buffers/Drivers with Open-Collector High-Voltage Outputs
7417	Hex Inverter Buffers/Drivers with Open-Collector High-Voltage Outputs
7420	Dual 4-Input Positive NAND
7423	Dual 4-Input NOR with Strobe
7425	Dual 4-Input NOR with Strobe
7426	Quadruple 2-Input High-Voltage Interface Postive NAND
7427	Triple 3-Input Positive NOR
7428	Quadruple 2-Input NOR Buffers
7430	8-Input Positive NAND
7432	Quadruple 2-Input Positive OR
7437	Quadruple 2-Input Positive NAND Buffers
7438	Quadruple 2-Input Positive NAND Buffers with Open-Collector Outputs
7440	Dual 4-Input NAND Buffers
7441	1-of-10 Decoder/Driver for Cold Cathode Display
7442	4-line BCD to 10-Line Decimal decoders
7445	BCD-to-Decimal Decoder/Driver
7446	BCD-to-7-Segment Decoder/Driver
7447	BCD-to-7-Segment Decoder/Driver
7448	BCD-to-7-Segment Decoder/Driver with Internal Pull-up Resistors
7450	Dual 2-Wide 2-Input AND-OR-INVERT
7451	AND-OR-INVERT
7453	Expandable 4-wide AND-OR-INVERT
7454	4-wide AND-OR-INVERT
7460	Dual 4-Input Expander
7470	AND J-K Positive Edge Triggered Flip-Flops with Preset and Clear
7472	AND J-K Master-Slave Flip-Flops with Present and Clear
7473	Dual J-K Flip-Flops with Clear
7474	Dual D-type Positive Edge Triggered Flip-Flops with Preset and Clear
7475	4-Bit Bistable latches
7476	Dual J-K Flip-Flops with Present and Clear
7480	Gated Full Adders
7481	16 Bit RAM
7482	2-Bit Binary Full Adders
7483	4-Bit Binary Full adders with Fast Carry
7485	4-Bit Magnitude Comaparators

EE 316 - Chip list

7486	quadruple 2-input Exclusive-OR
7490	Decade Counter
7491	8-Bit Shift Register
7492	Divide-by-twelve counter
7493	4-Bit Binary Counter
7494	4-Bit Shift Register
7495	4-Bit Parallel Access Shift Register
7496	5-Bit Shift Register
7497	Synchronous 6-Bit Binary Rate Multiplier
74107	Dual J-K Flip-Flops with Clear
74116	dual 4-Bit Latches with Clear
74120	Dual Pulse Synchronizers/Drivers
74121	Monostable Multivibrators with Schmitt-Trigger inputs
74122	Retriggerable Monostable Multivibrators with Internal Timing Resistors
74123	Retriggerable Monostable Multivibrators
74125	Quadruple Bus Buffers with 3-state outputs
74126	quadruple Bus Buffers with 3-state outputs
74128	Line Driver
74132	Quadruple 2-input Positive NAND Schmitt Triggers
74145	BCD-to-Decimal Decoders/Drivers with 80 mA Sink-Current capability
74147	10/4 Priority Encoder
74148	8 to 3 Line Octal Priority Encoder
74150	Data Selector/Multiplexer (selects one-of sixteen data sources)
74151	Data Selector/Multiplexer (selects one-of-eight data sources)
74153	Dual 4-line to 1-line Data Selector/Multiplexer
74154	4-line to 16-line Decoder/Demultiplexer
74155	Dual 2-line to 4-line Decoder/Multiplexer (totem pole output)
74157	Quadruple 2-line to 1-line data Selector/Multiplexer (presents true data)
74158	Quadruple 2-line to 1-line data Selector/Multiplexer (presents inverted data)
74160	Synchronous 4-Bit counter with direct Clear
74161	Synchronous 4-Bit counter with direct Clear
74163	Fully Synchronous 4-Bit Counter
74164	8-bit Parallel-Out Serial Shift Register
74165	Parallel Load 8-Bit Shift Register
74166	Parallel Load 8-Bit Shift Register with overriding Clear
74167	Synchronous Decade Rate Multiplier
74170	4-by-4 Register Files with Open Collector Outputs
74173	4-Bit D-type Register with 3-state Outputs
74174	Hex/Quadruple D-type Flip-Flops with Clear (single rail outputs)
74175	Hex/Quadruple D-type Flip-Flops with Clear (double rail outputs)
74176	35MHz Presettable Decade and Binary Counter/Latch
74177	35MHz Presettable Decade and Binary Counter/Latch
74179	4-Bit Parallel-Access Shift Register
74180	9-Bit Odd/Even Parity Generators/Checkers
74181	Arithmetic Logic Units/Function Generators
74182	Look-Ahead Carry Generators
74184	BCD-to-Binary and Binary-to-BCd Converters
74185	Binary - BCD Converter
74188	256 Bit ROM Open Collector
74190	Synchronous Up/Down Counters with Down/Up Mode Control
74191	Synchronous Up/Down Counters with Down/Up Mode Control
74192	Synchronous 4-Bit Up/Down Counters (Dual Clock with Clear)

EE 316 - Chip list

74193	Synchronous 4-Bit Up/Down Counters (Dual Clock with Clear)
74194	4-Bit Bidirectional Universal Shift Registers
74195	4-Bit Parallel-Access Shift Registers
74197	50/30/100 MHz Presettable Decade or Binary Counters/Latches
74C90	Decade Counter
74C95	4-Bit Parallel Access Shift Register
74C107	Dual J-K Flip-Flops with Clear
74C195	4-Bit Parallel
74C221	Dual Monostable
74C901	Hex TTI Inverting (CMOS to TTL)
74C904	Hex PMOS Non-Inverting (PMOS to CMOS or TTL)
74C910	256 Bit RAM
74C925	4-Decade, Multiplexed Output
74H00	Quad 2-Input NAND Gate
74H04	Hex Inverter
74H08	Quad 2-Input AND Gate
74H10	Triple 3-Input NAND Gate
74H11	Triple 3-Input AND Gate
74H20	Dual 4-Input NAND Gate
74H21	Dual 4-Input AND Gate
74H22	Dual 4-Input Positive-NAND Gates with Open-Collector Outputs
74H30	8-Input NAND Gate
74H40	Dual 4-Input NAND Buffer
74H50	Dual 2-Wide 2-Input AND-OR-Invert Gates
74H53	Expandable 4-Wide AND-OR-Invert Gates
74H54	4-Wide AND-OR-Invert Gates
74H71	AND Edge-Triggered D-Type Flip-Flops
74H72	AND Gated JK Master/Slave Flip-Flop
74H73	Dual JK Flip-Flop with Clear
74H74	Dual D Flip-Flop
74H76	Dual JK Flip-Flop with Preset and Clear
74H78	AND Edge-Triggered D-Type Flip-Flops
74H103	Edge-Triggered J-K Flip-Flops
74H106	Edge-Triggered J-K Flip-Flops
74H183	Dual Carry-Save Full Adders
74L02	Quadruple 2-Input Positive-NOR Gates
74L03	Quadruple 2-Input Positive-NAND Gates
74L04	Hex Inverters
74L08	Quadruple 2-Input Positive AND Gates
74L10	Triple 3-Input Positive-NAND Gates
74L11	Triple 3-Input
74L20	Dual 4-Input Positive-NAND Gates
74L30	8-Input Positive-NAND Gates
74L32	Quadruple 2-Input Positive OR
74L42	4-Line-to-10 Line Decoders
74L51	Dual 2-Wide 2-Input
74L54	4-Wide 2-3-3-2-Input
74L55	2-Wide 4-Input
74L71	AND-Gated R-S Master-Slave Flip-Flops with Preset and Clear
74L72	AND-Gated J-K Master-Slave Flip-Flops with Preset and Clear
74L73	Dual J-K Flip-Flops with Clear
74L74	Dual D-Type Positive-Edge-Triggered Flip-Flops with Preset and Clear
74L78	Dual J-K Flip-Flops with Preset, Common Clear, and Common Clock

EE 316 - Chip list

74L85	4-Bit Magnitude Comparators
74L86	Quadruple 2-Input Exclusive-OR Gates
74L89	16-Bit Read/Write Memories
74L90	Decade Counters
74L93	4-Bit Binary Counters
74L95	4-Bit Shift Registers
74L98	4-Bit Data Selector/Storage Registers
74L123	Dual Retriggerable Monostable Multivibrators with Clear
74L154	4-Line to 16-Line Decoders/Demultiplexers
74L164	8-Bit Parallel Output Serial Shift Registers
74L165	Parallel Load 8-Bit Shift Register
74L192	Synchronous Up/Down Dual Clock Counters
74L193	Synchronous Up/Down Dual Clock Counters
74LS00	Quadruple 2-Input Positive-NAND Gates
74LS01	Quadruple 2-Input Positive-NAND Gates with Open-Collector Outputs
74LS02	Quadruple 2-Input Positive-NOR Gates
74LS03	Quadruple 2-Input Positive-NAND Gates with Open-Collector Outputs
74LS04	Hex Inverters
74LS05	Hex Inverters with Open-Collector Outputs
74LS06	Hex Inverter Buffer/Driver
74LS07	Hex Buffer/Driver
74LS08	Quadruple 2-Input Positive-AND Gates
74LS09	Quadruple 2-Input Positive-AND Gates with Open-Collector Outputs
74LS10	Triple 3-Input Positive-NAND Gates
74LS11	Triple 3-Input Positive-AND Gates
74LS12	Triple 3-Input Positive-NAND Gates with Open-Collector Outputs
74LS13	Positive-NAND Schmitt Triggers
74LS14	Hex Schmitt-Trigger Inverters
74LS15	Triple 3-Input Positive-AND Gates with Open-Collector Outputs
74LS20	Dual 4-Input Positive-NAND Gates
74LS21	Dual 4-Input Positive-AND Gates
74LS22	Dual 4-Input Positive-NAND Gates with Open-Collector Outputs
74LS26	Quadruple 2-Input High-Voltage Interface Positive-NAND Gates
74LS27	Triple 3-Input Positive-NOR Gates
74LS28	Quadruple 2-Input Positive-NOR Buffers
74LS30	8-Input Positive-NAND Gates
74LS32	Quadruple 2-Input Positive-OR Gates
74LS33	Quadruple 2-Input Positive-NOR Buffers with Open-Collector Outputs
74LS37	Quadruple 2-Input Positive-NAND Buffers
74LS38	Quadruple 2-Input Positive-NAND Buffers with Open-Collector Outputs
74LS40	Dual 4-Input Positive-NAND Buffers
74LS42	4-Line BCD to 10-Line Decimal Decoders
74LS47	BCD-to-Seven-Segment Decoders/Drivers
74LS48	BCD-to-Seven-Segment Decoders/Drivers
74LS49	BCD-to-Seven-Segment Decoders/Drivers
74LS51	AND-OR-Invert Gates
74LS54	4-Wide AND-OR-Invert Gates
74LS55	2-Wide 4-Input AND-OR-Invert Gates
74LS73	Dual JK Flip-Flop with Clear
74LS74	Dual D Flip-Flop
74LS75	4-Bit Bistable Latches
74LS76	Dual JK Flip-Flop with Preset and Clear

EE 316 - Chip list

74LS78	Dual J-K with Preset, Common Clock and Common Clear
74LS83	4-Bit Binary Full Adders
74LS85	4-Bit Magnitude Comparators
74LS86	Quad EXCLUSIVE-OR Gate
74LS90	Decade, Divide-By-Twelve and Binary Numbers
74LS91	8-Bit Shift Registers
74LS92	Decade, Divide-by-Twelve and Binary Numbers
74LS93	Decade, Divide-by-Twelve and Binary Numbers
74LS95	4-Bit Parallel-Access Shift Register
74LS96	5-Bit Shift Registers
74LS107	Dual JK Flip-Flop with Clear
74LS109	Dual JK Pos. Edge-Trig. Flip-Flop
74LS112	Dual JK Neg. Edge-Trip. Flip-Flop
74LS113	Dual Negative Edge-Triggered, Separate Preset and Clock
74LS114	Dual Neg. Edge-Triggered w/Preset, Common Clock & Common Clear
74LS122	Retriggerable Monostable Multivibrators
74LS123	Retriggerable Monostable Multivibrators
74LS125	Quad Bus Buffer Neg. Enable Tri-State
74LS126	Quad Bus Buffer Tri-State
74LS132	Quadruple 2-Input Positive-NAND Schmitt Triggers
74LS133	13-Input NAND Gate
74LS136	Quadruple 2-Input Exclusive-OR Gates with Open-Collector Outputs
74LS138	3-Line to 8-Line Decoders/Demultiplexers
74LS139	2 to 4 Decoder/Demultiplexer
74LS145	BCD-to-Decimal Decoders/Drivers
74LS147	10-Line to 4-Line and 8-Line to 3-Line Priority Encoders
74LS148	10-Line to 4-Line and 8-Line to 3-Line Priority Encoders
74LS151	Data Selectors/Multiplexers
74LS153	Dual 4-Line to 1-Line Data Selectors/Multiplexers
74LS154	4 to 16 Line Decoder/Demultiplexer
74LS155	Dual 2/4 Demultiplexer
74LS156	Dual 2-Line to 4-Line Decoder/Demultiplexers
74LS157	Quadruple 2-Line to 1-Line Data Selectors/Multiplexers
74LS158	Quadruple 2-Line to 1-Line Data Selectors/Multiplexers
74LS160	Decade Counter with Asynch. Clear
74LS161	Synch 4-Bit Counter
74LS162	Synchronous, Preset Input Decade Counter
74LS163	Fully Synch. 4-Bit Counter
74LS164	8-Bit Parallel-Out Serial Shift Registers
74LS165	8-Bit Serial Shift Register, Parallel Load
74LS166	8-Bit Shift Register, Parallel Load
74LS168	Synch. Preset Input, Mode Control, Look-Ahead Carry Up/Down Counter
74LS169	Synch. Binary Up/Down Counter
74LS170	4-by-4 Register Files with Open-Collector Outputs
74LS173	4-Bit D-Type Reg. Tri-State
74LS174	Hex/Quadruple D-Type Flip-Flops with Clear
74LS175	Hex/Quadruple D-Type Flip-Flops with Clear
74LS181	Arithmetic Logic Units/Function Generators
74LS189	64-Bit Random-Access Memories
74LS190	Synchronous Up/Down Counters with Down/Up Mode Control
74LS191	Synchronous Up/Down Counters with Down/Up Mode Control

EE 316 - Chip list

74LS192	Synchronous 4-Bit Up/Down Counters (Dual Clock with Clear)
74LS193	Synchronous 4-Bit Up/Down Counters (Dual Clock with Clear)
74LS194	4-Bit Bi-Directional Shift Register
74LS195	4-Bit Parallel-Access Shift Register
74LS196	50/30/100-MHz Presettable Decade or Binary Counters/Latches
74LS197	50/30/100-MHz Presettable Decade or Binary Counters/Latches
74LS221	Dual Monostable Multivibrators with Schmitt-Trigger Inputs
74LS240	Octal Buffers and Line Drivers with 3-State Outputs
74LS241	Octal Buffers and Line Drivers with 3-State Outputs
74LS242	Quadruple Bus Transceivers
74LS243	Quadruple Bus Transceivers
74LS244	Octal Buffers and Line Drivers with 3-State Outputs
74LS245	Octal Bus Transceivers with 3-State Outputs
74LS247	BCD-to-Seven Segment Decoders/Drivers
74LS248	BCD-to-Seven Segment Decoders/Drivers
74LS249	BCD-to-Seven Segment Decoders/Drivers
74LS251	Data Selectors/Multiplexers with 3-State Outputs
74LS253	Dual 4-Line to 1-Line Data Selectors/Multiplexers with 3-State Outputs
74LS257	Quad 2-Input Multiplexer Tri-State
74LS258	Quad 2/1 Multiplexer Inverting Tri-State
74LS259	8-Bit Addressable Latch
74LS260	Quad 2-Input NAND Buffer, Open Collector, to 15 V Output
74LS261	2-Bit by 4-Bit Parallel Binary Multipliers
74LS266	Quadruple 2-Input Exclusive-NOR Gates with Open-Collectors Outputs
74LS273	Octal D-Type Flip-Flop with Clear
74LS279	Quad Set-Reset Latches
74LS280	9-Bit Odd/Even Parity Generators/Checkers
74LS283	4-Bit Binary Full Adders with Fast Carry
74LS289	64-Bit Random-Access Memories
74LS290	Decade and 4-Bit Binary Counters
74LS292	Programmable Frequency Dividers/Digital Timers
74LS293	Decade and 4-Bit Binary Counters
74LS295	4-Bit Bidirectional Universal Shift Registers
74LS298	Quadruple 2-Input Multiplexers with Storage
74LS299	8-Bit Universal Shift/Storage Registers
74LS320	Crystal-Controlled Oscillators
74LS322	8-Bit Serial Reg. with Sign Extended
74LS323	8-Bit Universal Shift/Storage Register
74LS347	BCD-to-Seven Segment Decoders/Drivers
74LS352	Dual 4-Line to 1-Line Data Selectors/Multiplexers
74LS353	Dual 4-Line to 1-Line Data Selectors/Multiplexers with 3-State Outputs
74LS364	Octal Edge-Triggered, Common Clock & Enable, 3 State D-Type Flip Flop
74LS365	Hex Buffer with Logical OR Tri-State
74LS366	Hex, Three State Inverter
74LS367	Hex Buffer Tri-State
74LS368	Hex Inverter Tri-State
74LS373	Octal D-Type Transparent Latches and Edge-Triggered Flip-Flops
74LS374	Octal D-Type Transparent Latches and Edge-Triggered Flip-Flops
74LS375	4-Bit Bistable Latches
74LS377	Octal, Hex, and Quad D-Type Flip-Flops with Enable

EE 316 - Chip list

74LS378	Octal, Hex, and Quad D-Type Flip-Flops with Enable
74LS379	Octal, Hex, and Quad D-Type Flip-Flops with Enable
74LS384	8-Bit by 1-Bit Two's Complement Multipliers
74LS386	Quadruple 2-Input Exclusive-OR Gates
74LS390	Dual 4-Bit Decade and Binary Counters
74LS393	Dual 4-Bit Decade and Binary Counters
74LS399	Quadruple 2-Input Multiplexers with Storage
74LS490	Dual 4-Bit Decade Counters
74LS533	8-Bit, Transparent, D-Type, Inverting Latch
74LS534	Octal Edge-Triggered, Inverted, Three-State D-Type Flip Flop
74LS540	Octal Buffers and Line Drivers with 3-State Outputs
74LS541	Octal Buffers and Line Drivers with 3-State Outputs
74LS590	8-Bit Binary Counters with Output Registers
74LS624	Voltage-Controlled Oscillators
74LS629	Voltage-Controlled Oscillators
74LS640	Octal Bus Transceivers
74LS641	Octal Bus Transceivers
74LS644	Octal Bus Transceivers
74LS645	Octal Bus Transceivers
74LS670	4-by-4 Register Files with 3-State Outputs
74LS688	8-Bit Magnitude/Identity Comparators
74S00	Quadruple 2-Input Positive-NAND Gates
74S04	Hex Inverters
74S10	Triple 3-Input Positive-NAND Gates
74S20	Dual 4-Input Positive-NAND Gates
74S32	Quadruple 2-Input Positive-OR Gates
74S40	Dual 4-Input Buffer NAND Gates
74S64	4-2-3-2 Input AND-OR-Invert Gates
74S86	Quadruple 2-Input Exclusive-OR Gates
74S112	Dual J-K Negative-Edge-Triggered Flip-Flops with Preset and Clear
74S113	Dual J-K Negative-Edge-Triggered Flip-Flops with Preset
74S133	13-Input Positive-NAND Gates
74S135	Quadruple Exclusive-OR/NOR Gates
74S138	Decoders/Demultiplexers
74S140	Dual 4-Input Positive-NAND 50-Ohm Line Drivers
74S151	Data Selectors/Multiplexers
74S157	Quadruple 2-Line to 1-Line Data Selectors/Multiplexers
74S158	Quadruple 2-Line to 1-Line Data Selectors/Multiplexers
74S182	Look-Ahead Carry Generators
74S195	50/30/100-MHz Presettable Decade or Binary Counters/Latches
74S241	Octal Buffers and Line Drivers with 3-State Outputs
74S257	Quadruple 2-Line to 1-Line Data Selectors/Multiplexers
74S260	Dual 5-Input Positive-NOR Gates
74S381	Arithmetic Logic Unit/Function Generator
74F02	Quad 2-Input NOR Gate
74F04	Hex Inverter
74F11	Triple 3-Input AND Gate
74F13	Dual Neg. Edge-Triggered, Separate Preset & Clock J-K Type Flip-Flop
74F30	8 Input NAND Gate

EE 316 - Chip list

74F32	Quad 2-Input OR Gate
74F37	Quad 2-Input Buffer NAND Gate
74F86	Quad 2-Input, Totem Pole Outputs, Exclusive OR Gate
74F112	Dual Negative-Edge-Triggered with Preset & Clear, J-K Type Flip-Flop
74F132	Quad 2-Input NAND Schmitt-Trigger
74F138	3-Line to 8-Line Decoder/Demultiplexer
74F139	Dual 2-Line to 4-Line Decoder/Demultiplexer
74F151	8-Input, Complementary Output, Strobe Multiplexer
74F153	Dual 4-Input Multiplexer
74F161	Synchronous, Preset Input Binary Count Up Counter
74F164	8-Bit Gated Serial-In, Parallel-Out Shift Register
74F193	Synchronous, Preset Input Binary Count Up/Down Counter
74F224	
74F244	Octal Bus Driver, Non-Invert, 3-State, Sym Controls Bus Transceivers
74F245	Octal Bus Transceiver, Noninverting, Three-State
74F251	8-Input Strobe, Complementary Output, 3-State Multiplexer
74F253	Dual 4-Input, Three-State Multiplexer
74F257A	Quad 2-Input, Non-Inverting, Three-State Multiplexer
74F280	9-Bit Odd/Even Parity Generator/Checker
74F283	4-Bit Binary Full Adder, Look-Ahead Carry
74F322	8-Bit Serial/Parallel-In Register with Sign Extend
74F350	4-Bit Shifter Multiplexer
74F366	Hex, Three-State Inverter
74F368	Hex, Three-State Inverter
74F373	8-Bit, Transparent, D Type, Three-State Latch
74F374	Octal Edge-Triggered, Three-State, D-Type Flip Flop
74F401	CRC Generator/Checker
74F403	FIFO, 16 x 4
74F413	FIFO, 64 x 4
74F521	Comparator, 8-Bit
74F534	Octal Edge-Triggered, Inverting, 3-State, D-Type Flip Flop
74F537	BCD-to-Decimal, Three-State Decoder
74F538	3-Line to 8-Line Decoder/Demultiplexer, Invert/Non-Invert, 3-State Decoder
74F539	Dual 2-Line to 4-Line Decoder/Demultiplexer, Three-State Decoder
74F540	Octal Buffer/Line Driver w/Tri-State out
74F541	Octal Buffer Line Driver
74F544	Octal Bus Transceiver with Register, Three-State
74F563	Octal D-Type Latch
74F568	Synchronous Decade Count Up/Down Counter
74F569	Synchronous Binary Count Up/Down Counter
74F573	Octal D-Type Latch
74F582	Octal, with Parity Generator Checker
74F640	Octal Bus Transceiver, Inverting, Three-State
74F652	Octal Bus Transceiver/Register
74F821	10-Bit D-Type Flip-Flop
74F828	10-Bit Buffer Line Driver
74F843	9-Bit Transparent Latch
8088	8-Bit Microprocessor
8216	Bidirectional Bus Driver
8224	Clock Generator and Driver
8251A	Programmable Communication Interface, 8_Bit
8254	Programmable Counter, 8-Bit

EE 316 - Chip list
