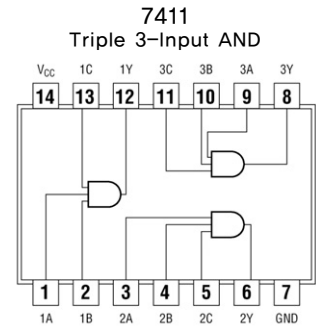
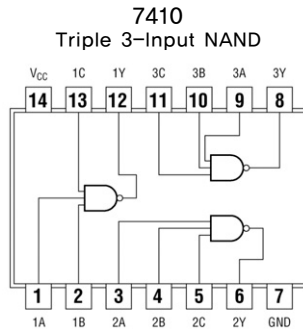
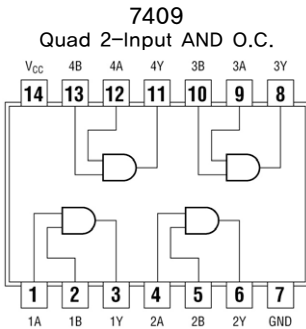
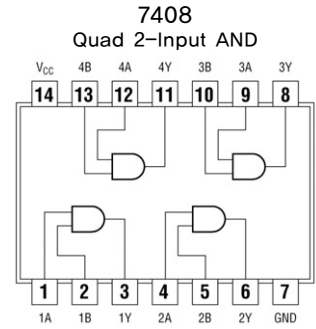
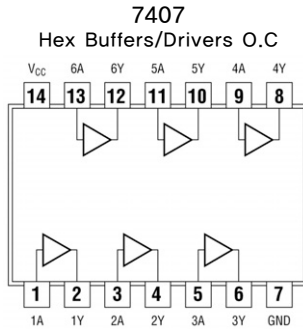
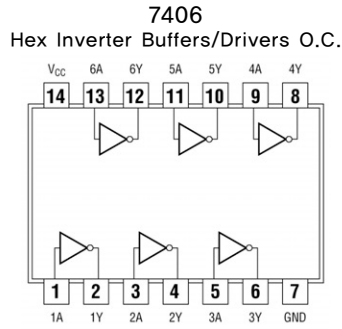
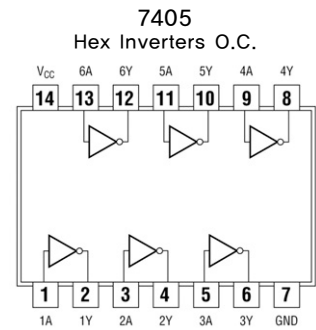
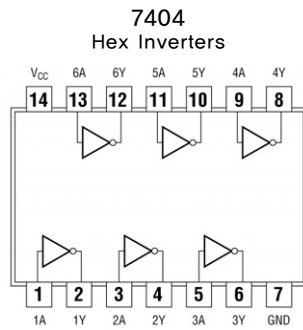
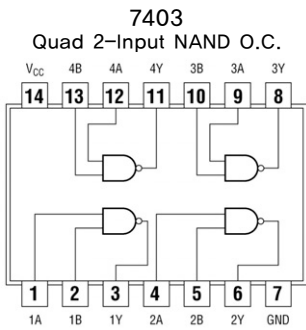
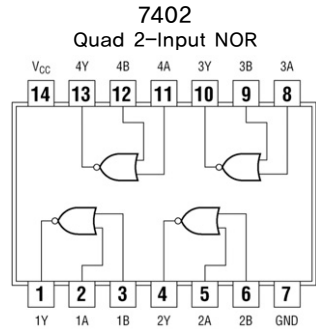
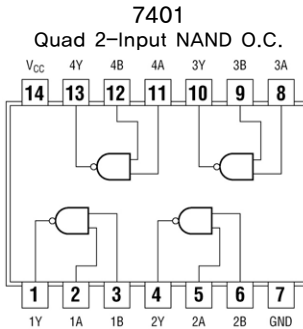
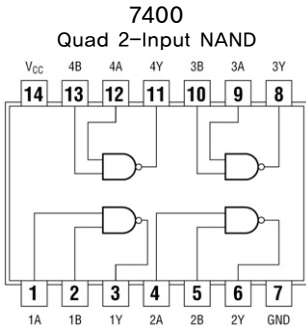


A p p e n d i x

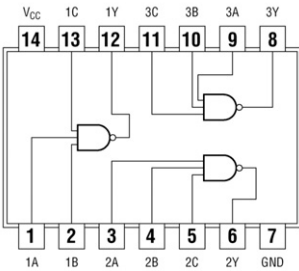
B

TTL IC 데이터 북

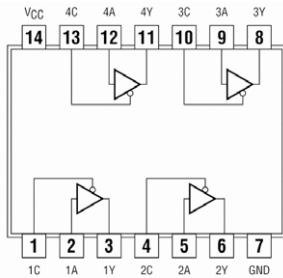




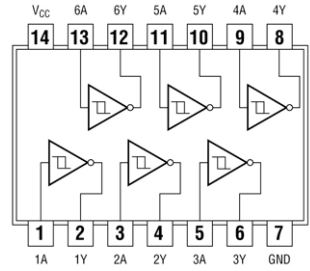
7412
Triple 3 Input NAND O.C.



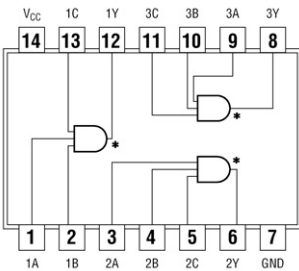
7413
Dual 4 Input NAND Schmitt Trigger



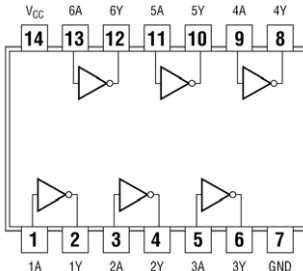
7414
Hex Schmitt Trigger Inverters



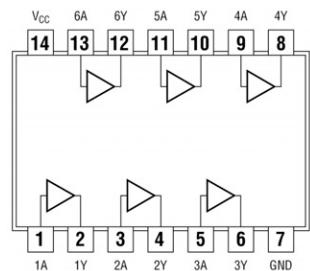
7415
Triple 3-Input AND with O.C.



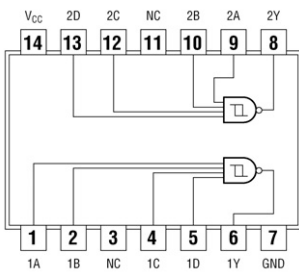
7416
Hex Inverter Buffers/Drivers O.C.



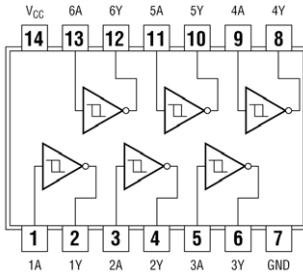
7417
Hex Buffers/Drivers O.C.



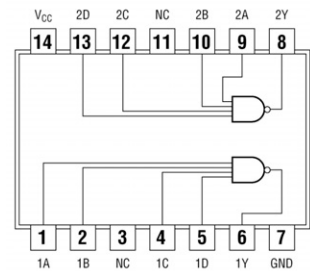
7418
Dual 4-Input NAND Schmitt Triggers



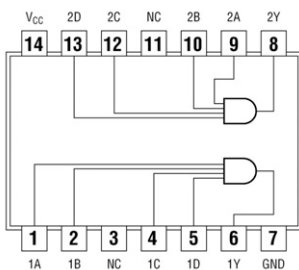
7419
Hex Schmitt Trigger Inverters



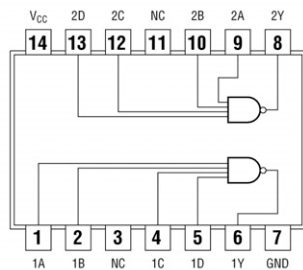
7420
Dual 4-Input NAND



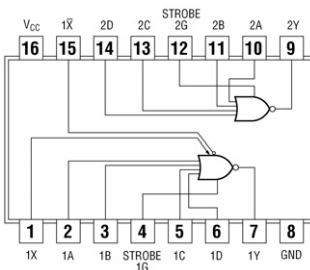
7421
Dual 4-Input AND



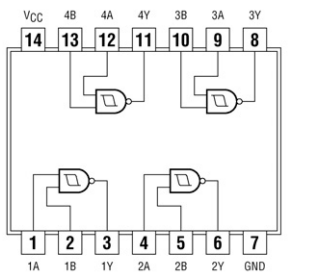
7422
Dual 4-Input NAND O.C.



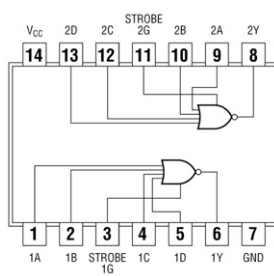
7423
Expandable Dual 4-Input NOR with strobe



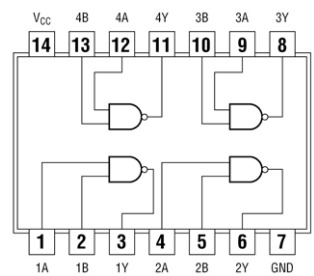
7424
Quad 2-Input NAND Schmitt Triggers



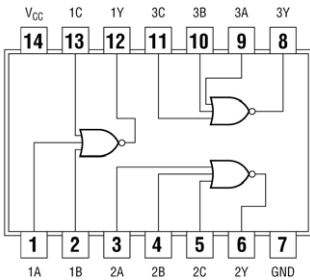
7425
Dual 4-Input NOR with Strobe



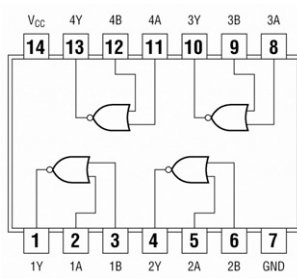
7426
Quad 2-Input High Voltage Interface NAND



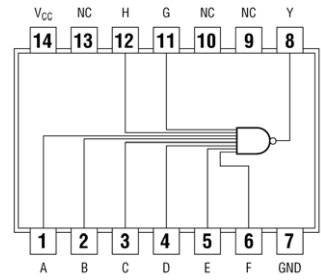
7427
Triple 3-Input NOR



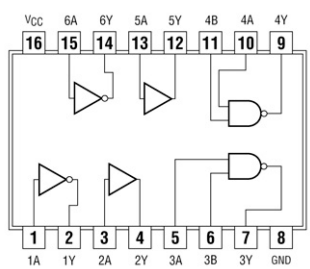
7428
Quad 2-Input NOR Buffer



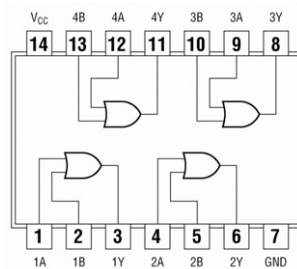
7430
8-Input NAND



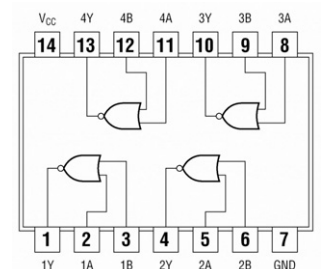
7431
Delay Elements



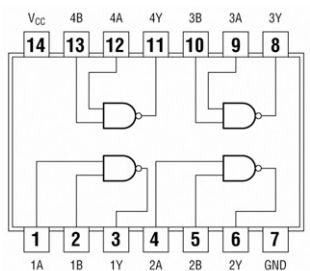
7432
Quad 2-Input OR



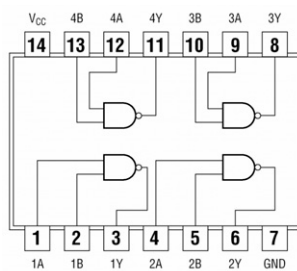
7433
Quad 2-Input NOR Buffers O.C.



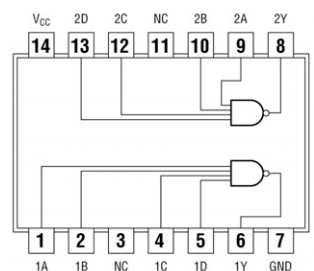
7437
Quad 2-Input NAND Buffers



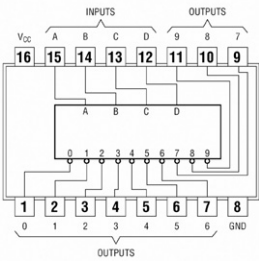
7438
Quad 2-Input NAND Buffers O.C.



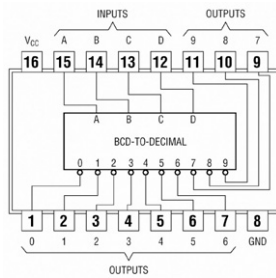
7440
Dual 4-Input NAND Buffers



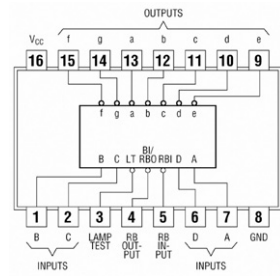
7442, 7443, 7444
4-Line to 10-Line Decoder, Excess-3 to Decimal Decoder, Excess-3 Gray to Decimal Decoder



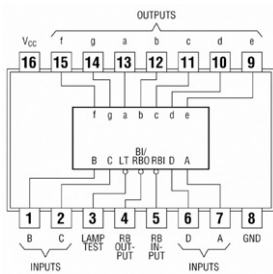
7445
BCD-to-Decimal Decoder/Driver 30V O.C.



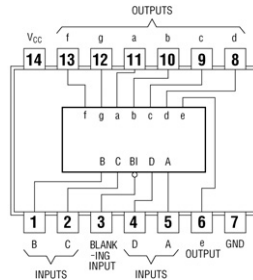
7446, 7447
BCD-to-Seven Segment Decoders/Drivers



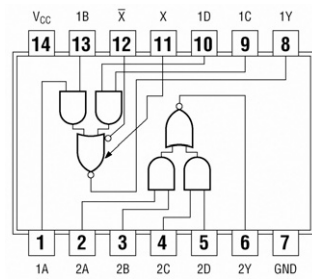
7448
BCD-to-Seven Segment Decoders/Drivers



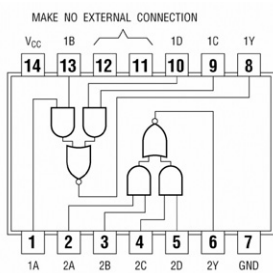
7449
BCD-to-Seven Segment Decoders/Drivers



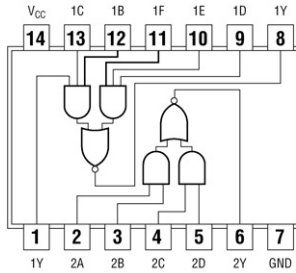
7450
Dual 2 wide 2-Input AND-OR-INVERT



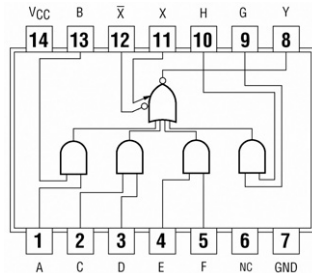
7451(7451, 74S51)
Dual 2 wide 2-Input AND-OR-INVERT



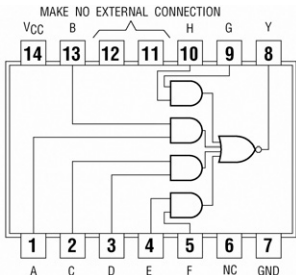
7451(74LS51, 74HC51)
Dual 2 wide 2-Input AND-OR-INVERT



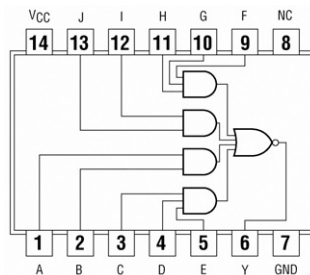
7453
4 wide 2-Input AND-OR-INVERT



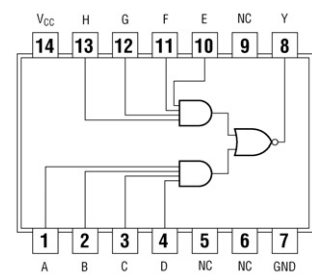
7454
4 wide 2-Input AND-OR-INVERT



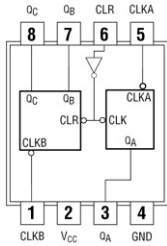
7454(74LS54)
4 wide 2-Input AND-OR-INVERT



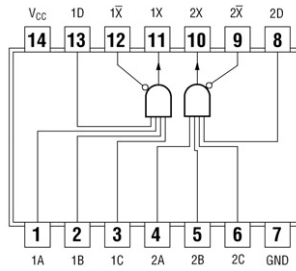
7455
Expandable 2 wide 4-Input AND-OR-INVERT



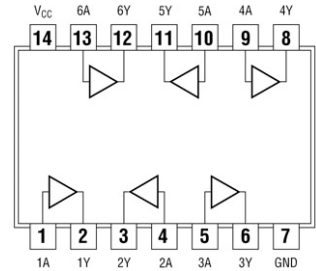
7456, 7457
50 to 1 Frequency Division
60 to 1 Frequency Division



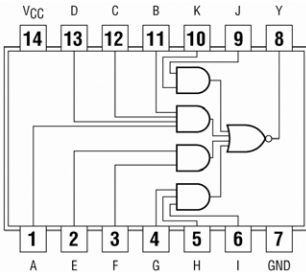
7460
Dual 4-Input Expanders



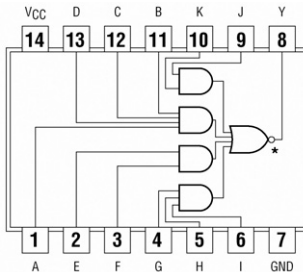
7463
Hex Current Sensing Interface Gates



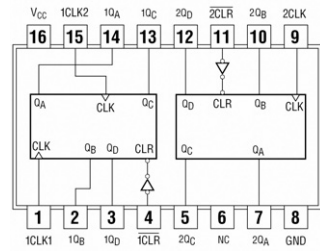
7464
4-2-3-2 Input AND-OR-INVERT



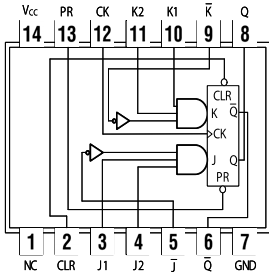
7465
4-2-3-2 Input AND-OR-INVERT O.C.



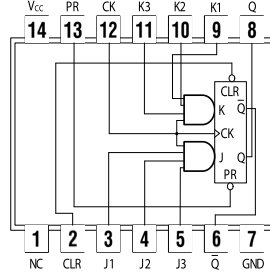
7468, 7469
Dual 4-Bit Decade Counters
Dual 4-Bit Binary Counters



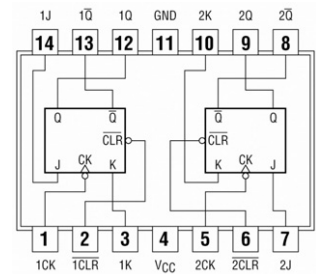
7470
AND-gated J-K Flip Flop with Preset and Clear



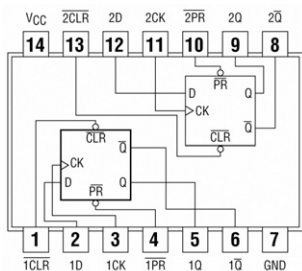
7472
AND-gated J-K Flip Flop with Preset and Clear



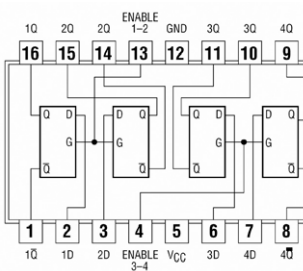
7473
Dual J-K Flip Flops with Clear



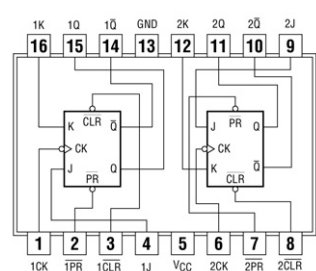
7474
Dual D-Type Flip Flops with Preset and Clear

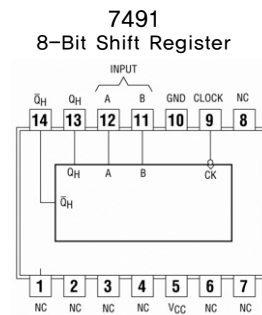
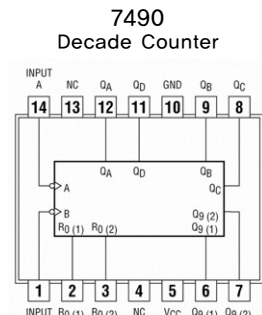
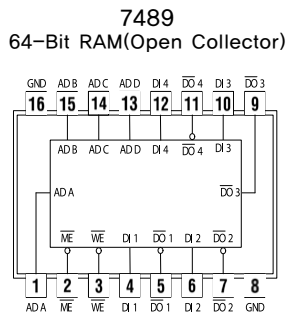
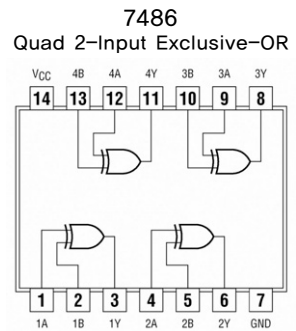
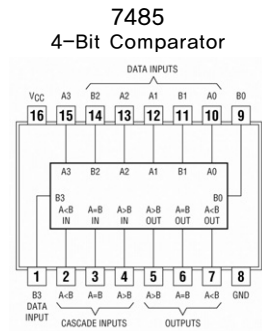
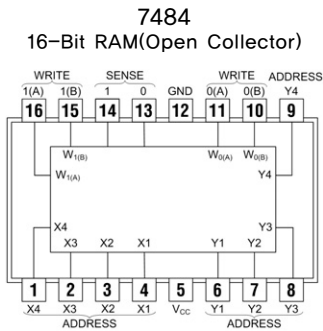
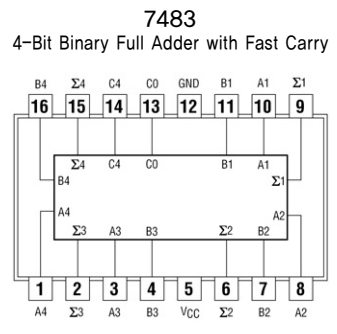
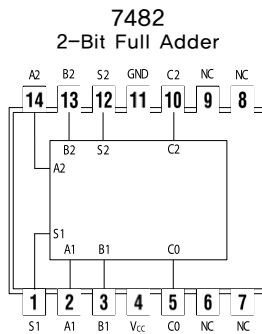
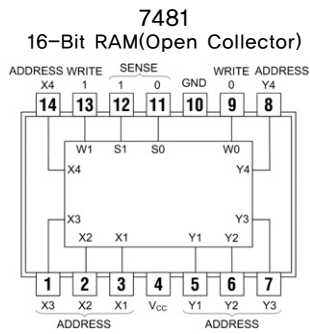
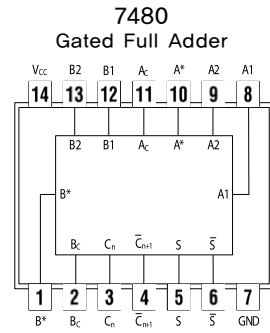
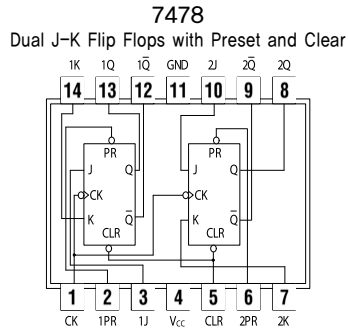
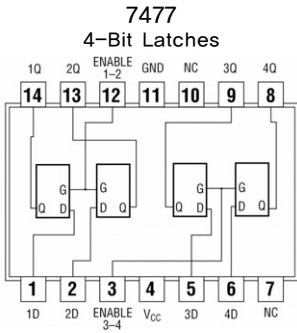


7475
4-Bit Bistable Latches

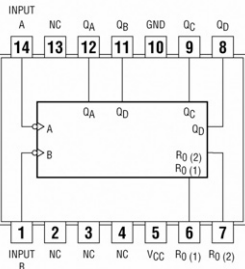


7476
Dual J-K Flip Flops with Preset and Clear

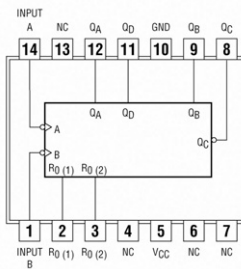




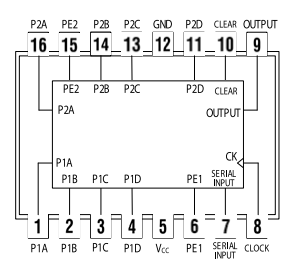
7492
Divide-by-12 Counters



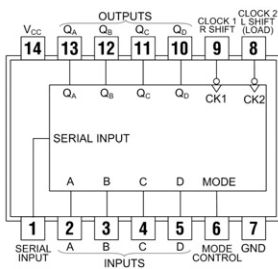
7493
4-Bit Binary Counters



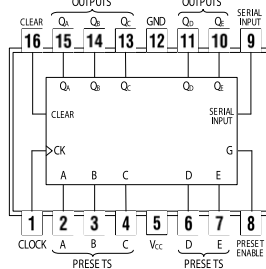
7494
4-Bit Shift Register



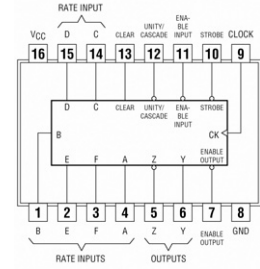
7495
4-Bit Shift Register PIPO



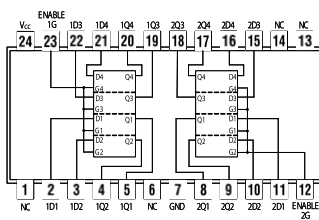
7496
5-Bit Shift Register PIPO



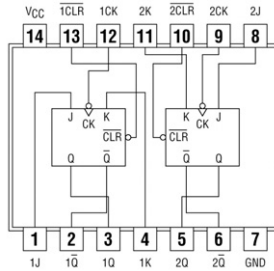
7497
6-Bit Synchronous Binary Rate Multipliers



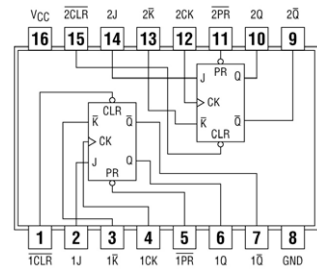
74100
8-Bit Latches



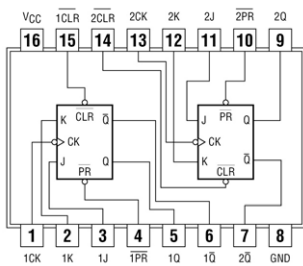
74107
Dual J-K Flip Flops with Clear



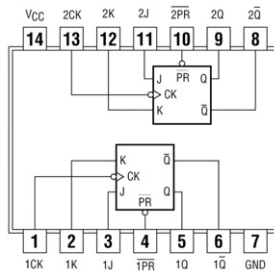
74109
Dual J-K Flip Flops with Preset and Clear



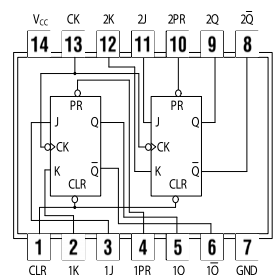
74112
Dual J-K Flip Flops with Preset and Clear



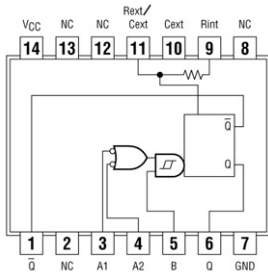
74113
Dual J-K Flip Flops with Preset



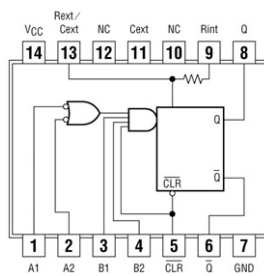
74114
Dual J-K Flip Flops with Preset and Clear



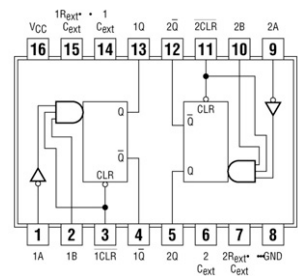
74121
Monostable Multivibrators



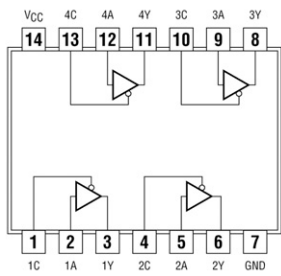
74122
Monostable Multivibrators with Clear



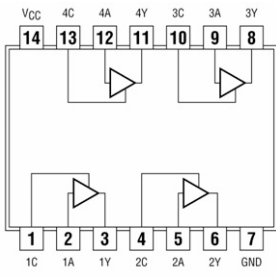
74123
Dual Monostable Multivibrators with Clear



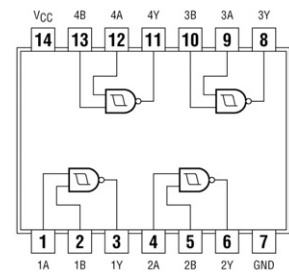
74125
Quad Bus Buffer Gates 3-State



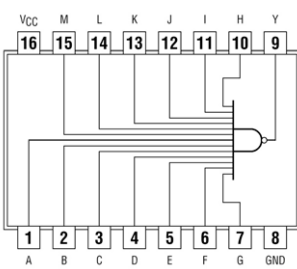
74126
Quad Bus Buffer Gates 3-State



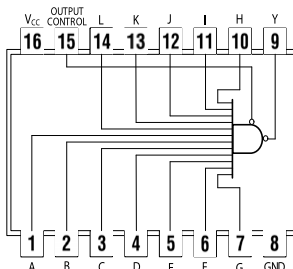
74132
Quad 2-Input NAND Schmitt Triggers



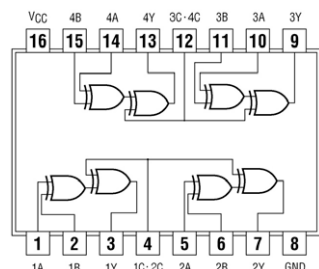
74133
13-Input NAND



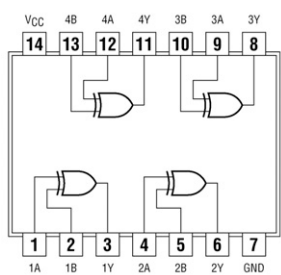
74134
12-Input 3 States NAND



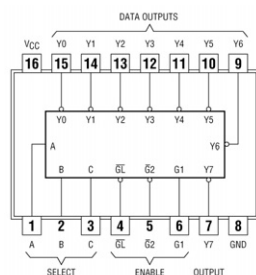
74135
Quad 2-Input XOR/XNOR



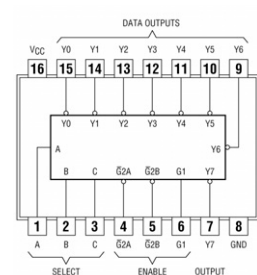
74136
Quad 2-Input XOR O.C.



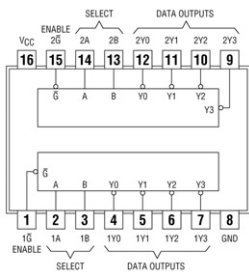
74137
3-to-8 Line Decoders/Demultiplexers Latch



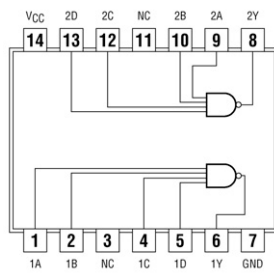
74138
3-to-8 Line Decoders/Demultiplexers



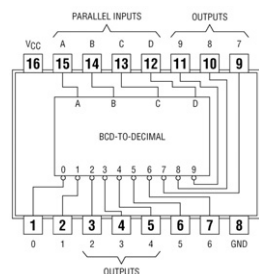
74139
Dual 2-to-4 Line Decoders/Demultiplexers



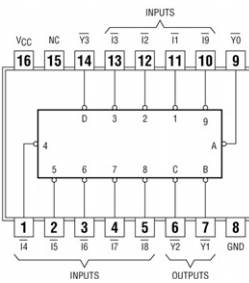
74140
Quad 4-input NAND Line Driver(50Ω)



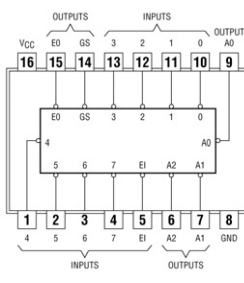
74145
BCD-to-Decimal Decoders/Drivers O.C.



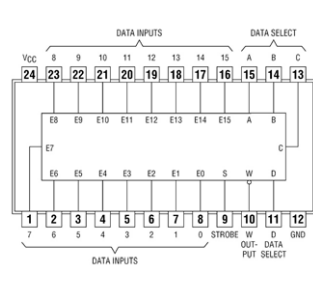
74147
10-to-4 Line Priority Encoder



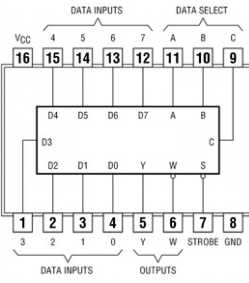
74148
8-to-3 Line Priority Encoders



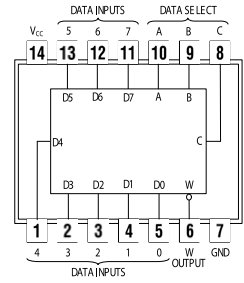
74150
16-to-1 Line Data Selector



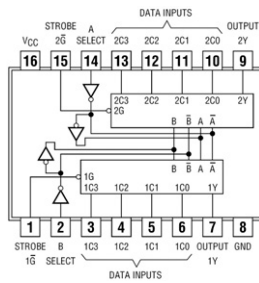
74151
8-to-1 Line Data Selectors/Multiplexers



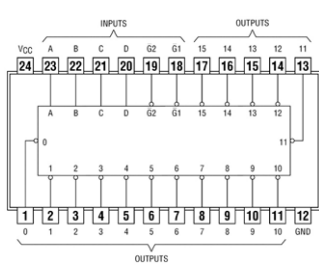
74152
8-to-1 Line Data Selector



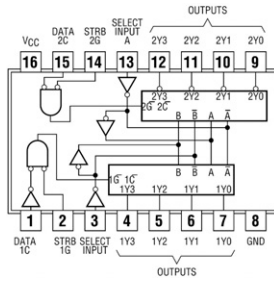
74153
Dual 4-to-1 Line Data Selectors/Multiplexers



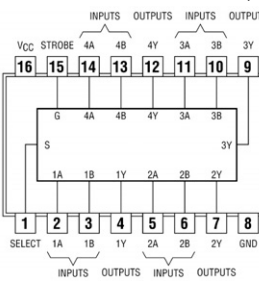
74154
4-to-16 Line Decoders/Demultiplexer



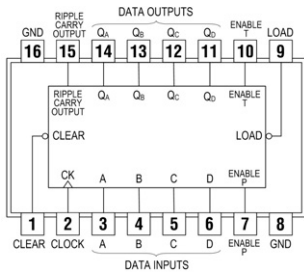
74155, 74156
Dual 2-to-4 Line Decoders/Demultiplexers



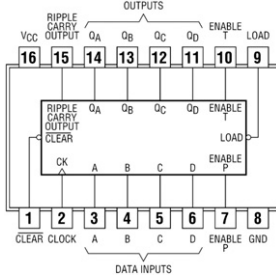
74157, 74158
Quad 2-to-1 Line Data Selectors/Multiplexers



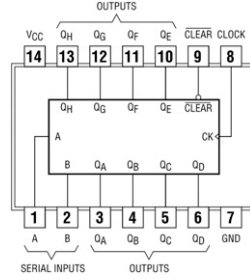
74160, 74162
Synchronous Presettable BCD Counter with Clear



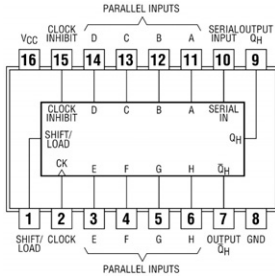
74161, 74163
Synchronous 4-bit Binary Counters



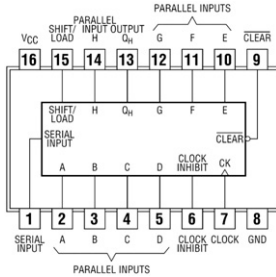
74164
8-Bit Shift Registers (P-Out Serial)



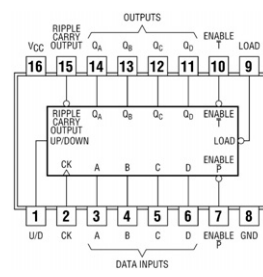
74165
8-Bit Shift Registers(P-Load)



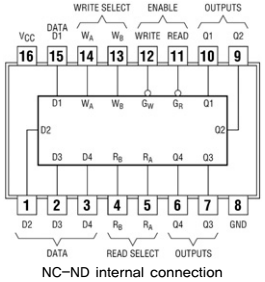
74166
8-Bit Shift Registers(P-Load)



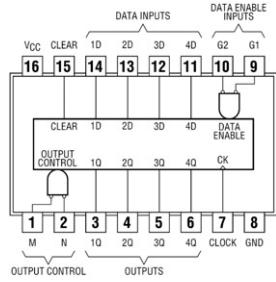
74168, 74169
BCD/Decade Synchronous Up-Down Counters



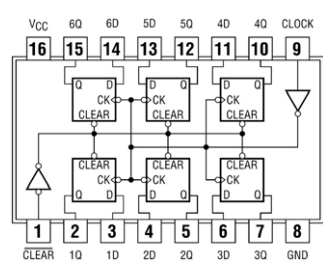
74170
4-by-4 Register Files



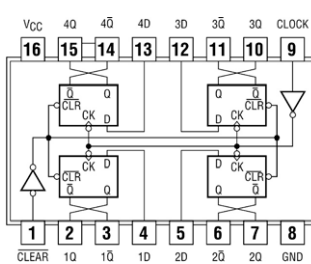
74173
4-Bit D-Type Registers



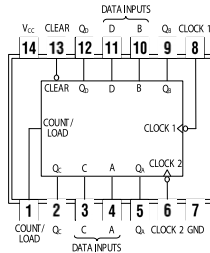
74174
Hex D-Type Flip Flops



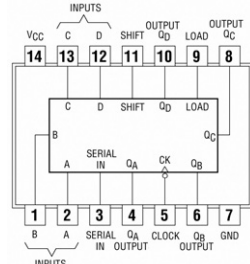
74175
Quad D-Type Flip Flops



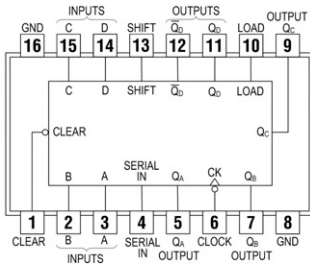
74176, 74177
Presettable Decade Counter
Presettable Binary Counter



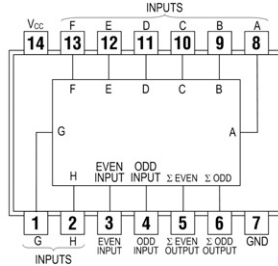
74178
4-Bit Register PIPO



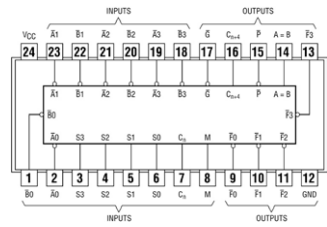
74179
4-Bit Shift Register PIPO



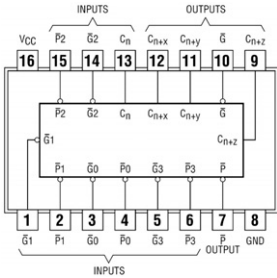
74180
8-Bit Parity Generator



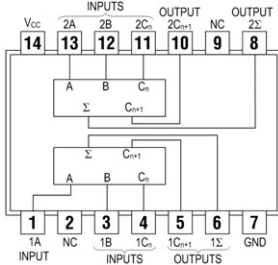
74181
4-Bit ALU/Function Generators



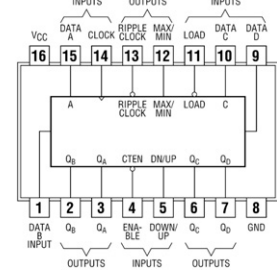
74182
Look-Ahead Carry Generators



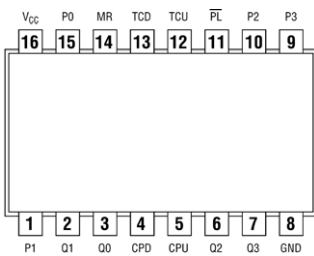
74183
Dual Carry Save Full Adders



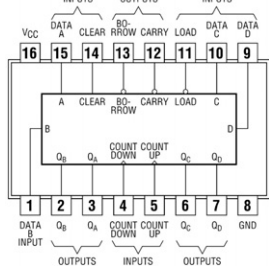
74190, 74191
Presettable Synchronous Up/Down Decade Counter



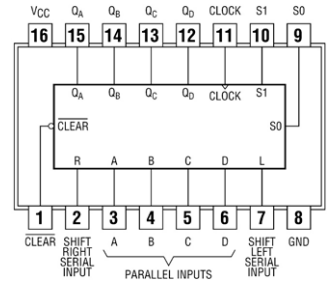
74192
Presettable Synchronous 4-Bit Up/Down Counters



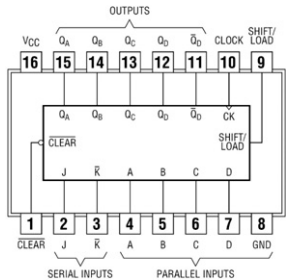
74193
Presettable Synchronous Up/Down Dual Clock Counters



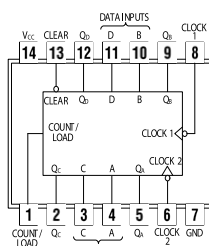
74194
4-Bit Bidirectional Universal Shift Registers



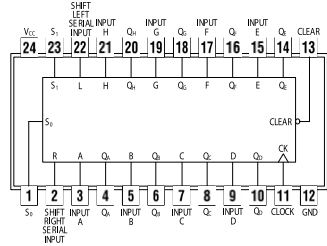
74195
4-Bit Parallel Access Shift Registers



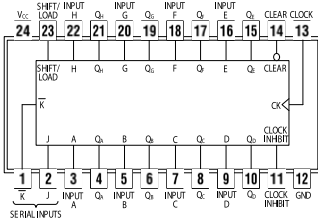
74196, 74197
Presettable Decade Counter
Presettable Binary Counter



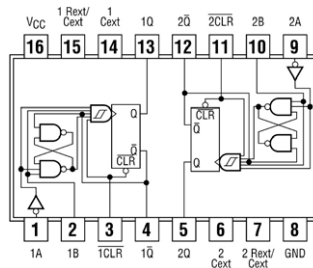
74198
8-Bit Bidirectional Shift Register PIPO



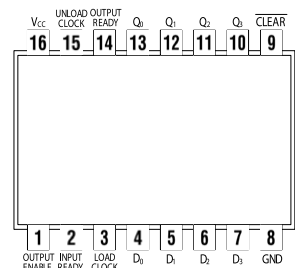
74199
8-Bit Shift Register PISO



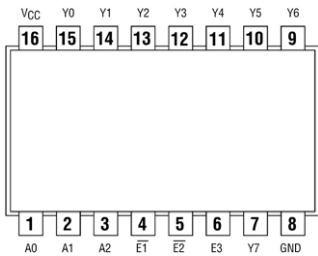
74221
Dual Monostable Multivibrators



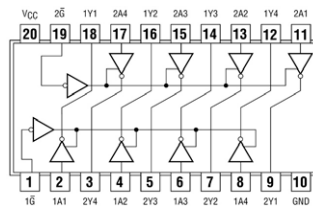
74224
16x4 Synchronous FIFO Memory with 3-State Outputs



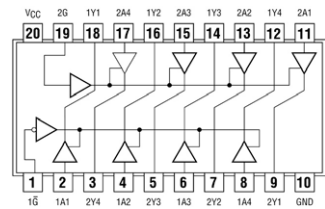
74238
3-to-8-Line Decoders/Demultiplexers



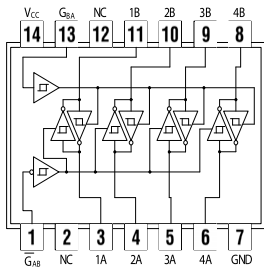
74240
Octal Bus Drivers 3-State



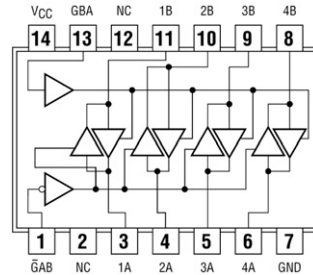
74241
Octal Bus Drivers 3-State



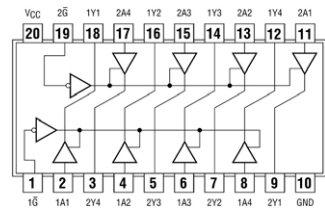
74242
Quad Bus Transceiver



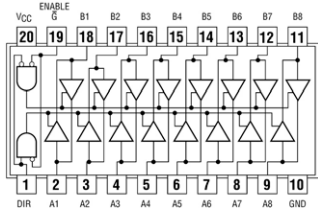
74243
Quadruple Bus Transceivers



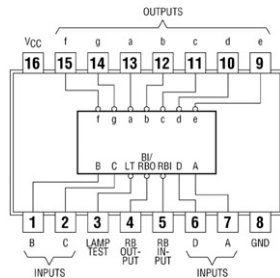
74244
Octal Bus Drivers 3-State



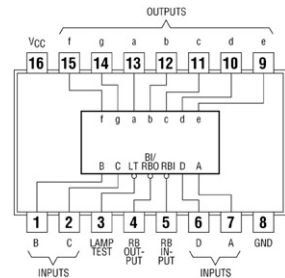
74245
Octal Bus Transceivers 3-State



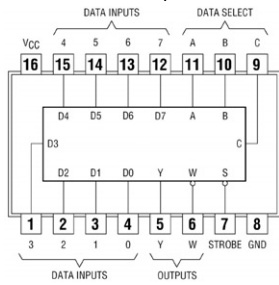
74246, 74247
BCD-to-Seven Segment Decoders



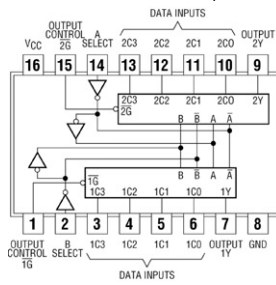
74248, 74249
BCD-to-Seven Segment Decoders



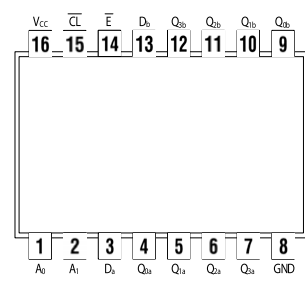
74251
Data Selectors/Multiplexers 3-State



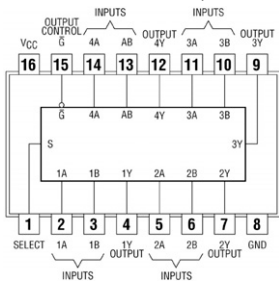
74253
Dual 4-to-1 Line Data Selector/Multiplexers 3-State



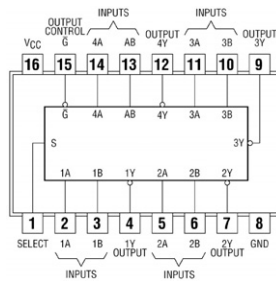
74256
Dual 4-Bit Addressable Latch



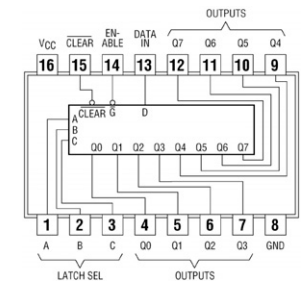
74257
Quad 2-to-1 Data Selector/Multiplexers 3-State



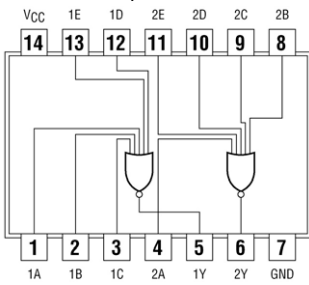
74258
Quad 2-to-1 Data Selector/Multiplexers 3-State



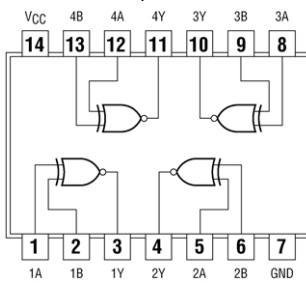
74259
8-Bit Addressable Latches



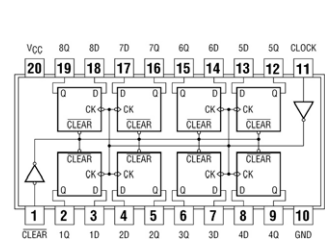
74260
Dual 5-Input NOR Gates



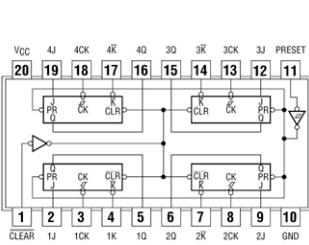
74266
Quad 2-Input XNOR O.C.



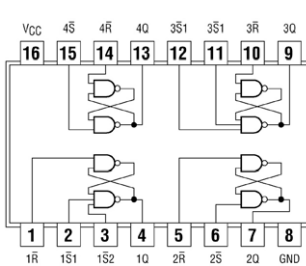
74273
Octal D-Type Flip Flops



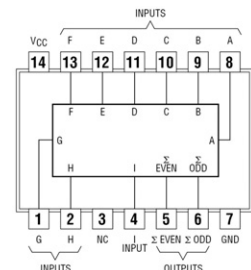
74276
Quad J-K Flip Flops



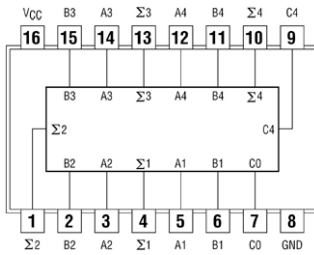
74279
Quad S-R Latches



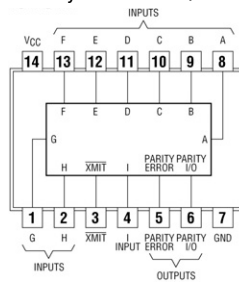
74280
9-Bit Parity Generators/Checkers



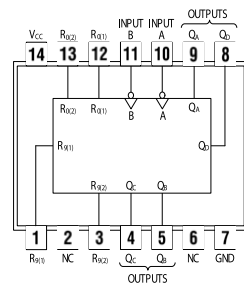
74283
4-Bit Binary Full Adders



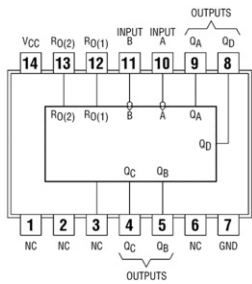
74286
9-Bit Parity Generators/Checkers



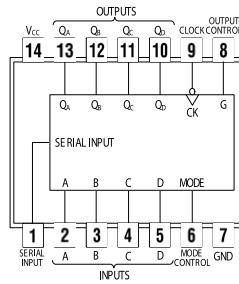
74290
Decade Counter



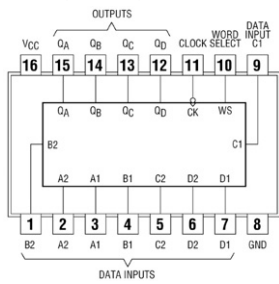
74293
4-Bit Binary Counters



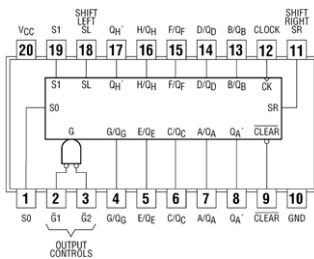
74295
4-Bit Shift PIPO 3-State



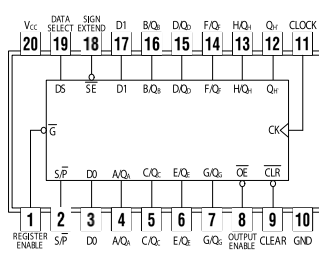
74298
Quad 2-Input Multiplexers with Storage



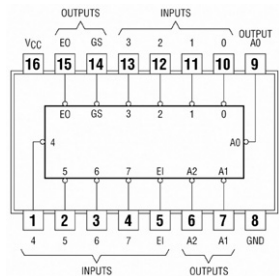
74299, 74323
8-Bit bidirectional Universal Shift/Storage Registers



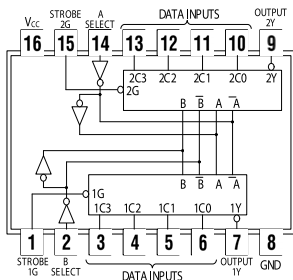
74322
8-Bit Shift Register with Sign Extend



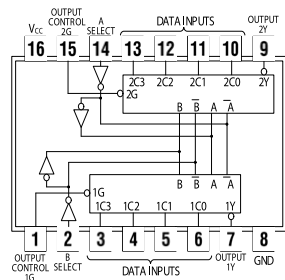
74348
8-to-3 Line Priority Encoder



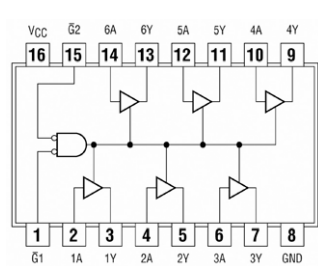
74352
Dual 4-to-1 Line Data Selector



74353
Dual 4-to-1 Line Data Selector 3-State

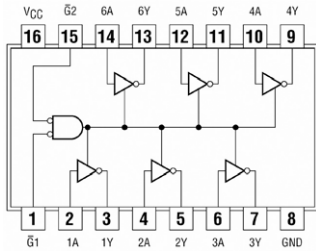


74365
Hex Bus Drivers Hex Buffers/Line Drivers 3-State



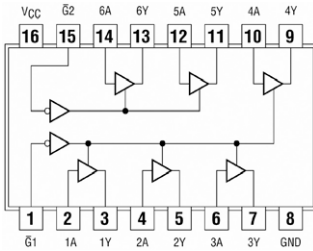
74366

Hex Bus Drivers Hex inverters/Line Drivers 3-State



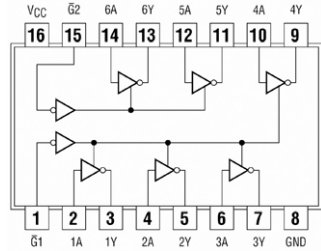
74367

Hex Bus Drivers Hex Buffers/Line Drivers 3-State



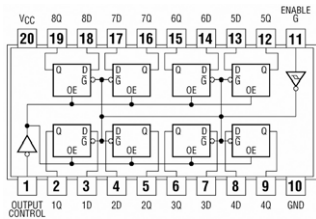
74368

Hex Bus Drivers Hex inverters/Line Drivers 3-State



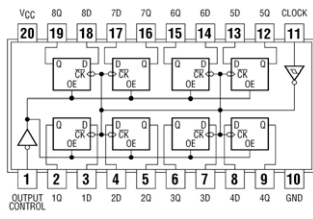
74373

Octal D-Type Latches 3-State



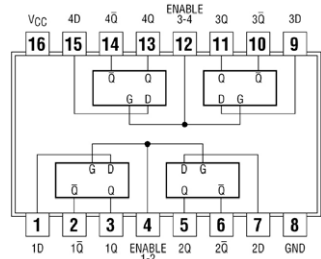
74374

Octal D-Type Flip Flops 3-State



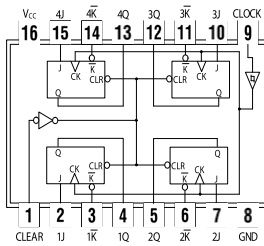
74375

Quad Latches



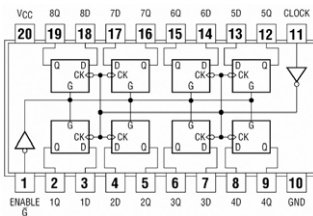
74376

Quad J-K Flip Flops



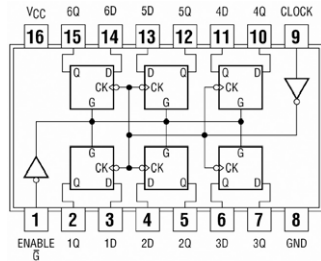
74377

Octal D-Type Flip Flops with Enable

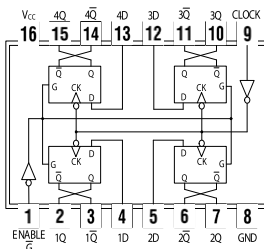


74378, 74174

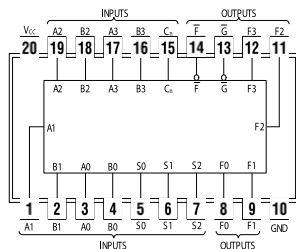
Hex D-Type Flip Flops Clock with Enable



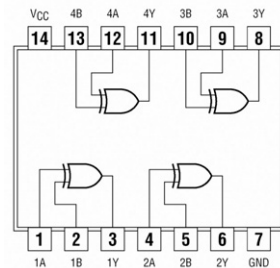
74379, 74175
Quad D-Type Flip Flops with Enable



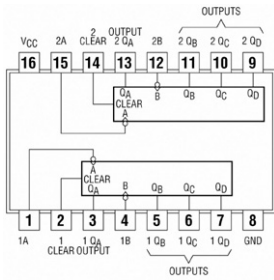
74381, 74382
ALU/Function Generator



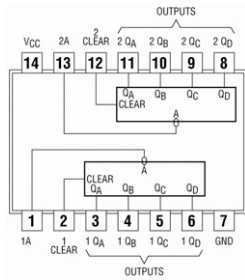
74386
Quad 2-Input XOR



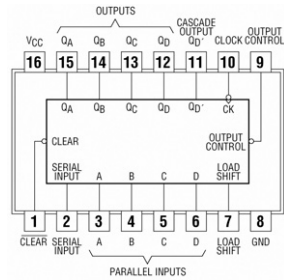
74390
Dual Decade Counters



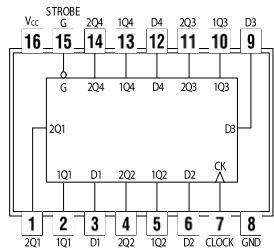
74393
Dual 4-Bit Binary Counters



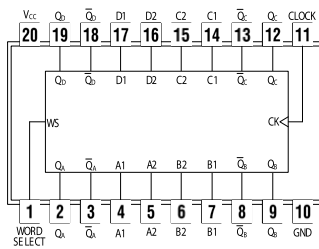
74395
4-Bit Shift Register PIPO



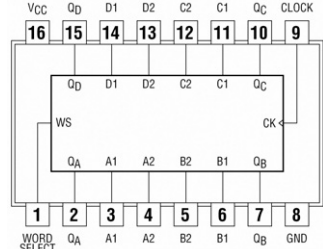
74396
Octal Storage Register



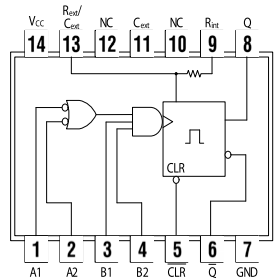
74398
Quad 2-Input Multiplexer with Storage



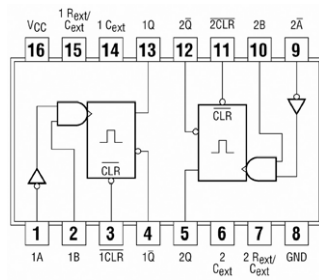
74399
Quad 2-Input Multiplexer with Storage



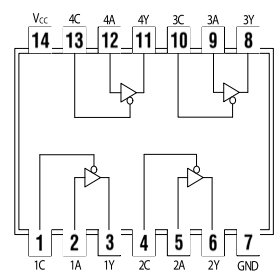
74422
Monostable Multivibrator



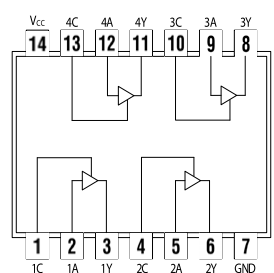
74423
Mono Stable Multivibrator



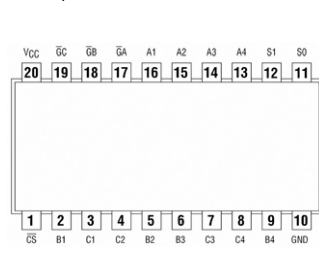
74425
Quad 3-State Buffers



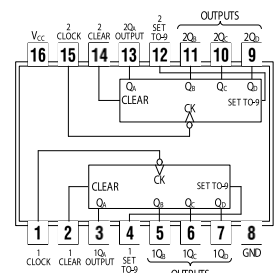
74426
Quad 3-State Buffers



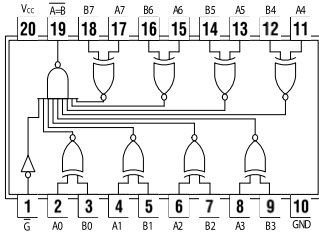
74440, 74441, 74442, 74443, 74444
Quadruple Tridirectional Bus Transceivers



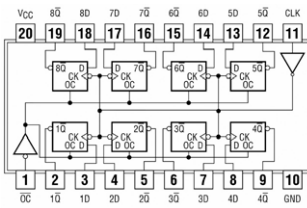
74490
Dual Decade Counters



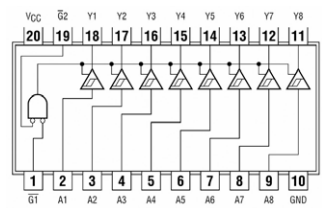
74520, 74521, 74688, 74689
8-Bit Identity Comparator



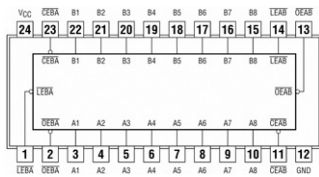
74534
Octal D-Type Edge-triggered Flip Flops



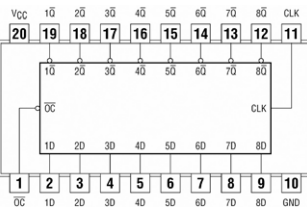
74540, 74541
Octal Buffers/Drivers 3-State



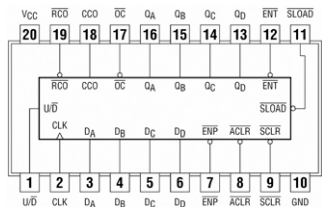
74543
Octal Registered Transceivers



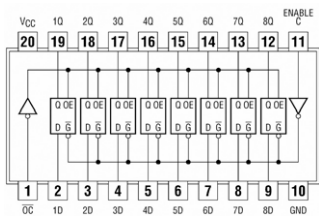
74564
Octal D-Type Flip Flops



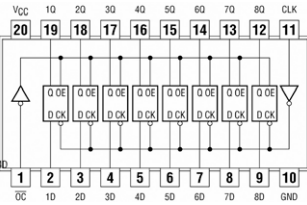
74569
Synchronous Binary Counter 3-State



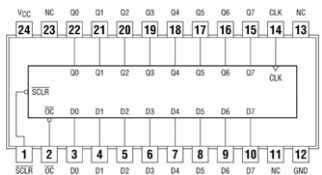
74573
Octal D-Type Latches



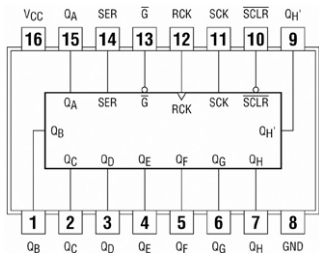
74574
Octal D-Type Edge-triggered Flip Flops



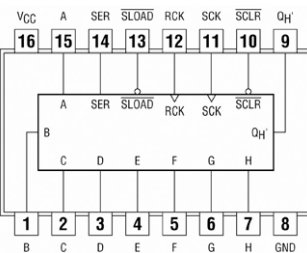
74575
Octal D-Type Edge-triggered Flip Flops



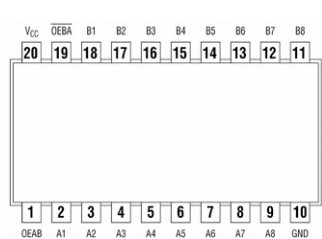
74595, 74596
8-Bit Shift Registers



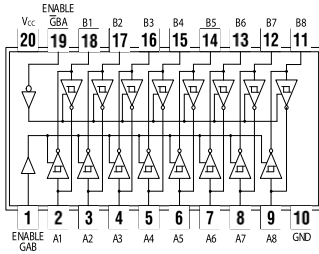
74597
8-Bit Shift Registers



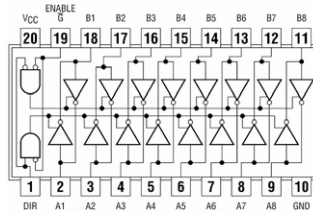
74620, 74621, 74623
Octal Bus Transceivers 3-State



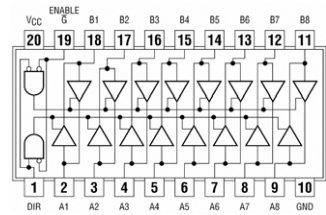
74622
Octal Bus Transceiver O.C.



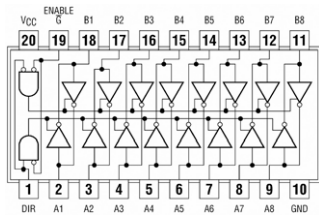
74638
Octal Bus Transceivers



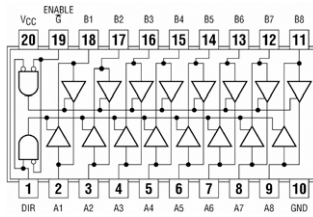
74639
Octal Bus Transceivers



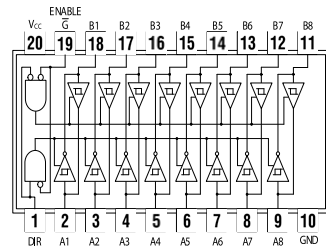
74640, 74642
Octal Bus Transceivers 3-State



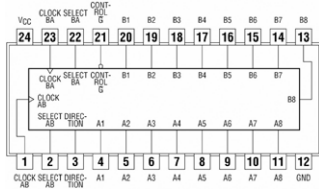
74641, 74645
Octal Bus Transceivers O.C.



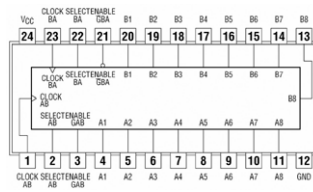
74643, 74644
Octal 3-State Bus Transceivers



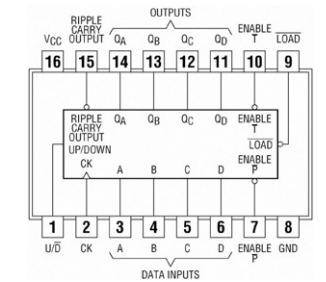
74646, 74647, 74648
Octal Bus Transceivers and Registers

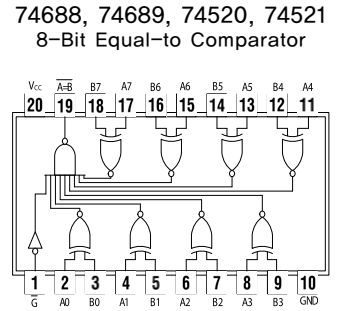
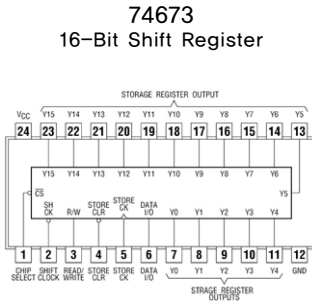
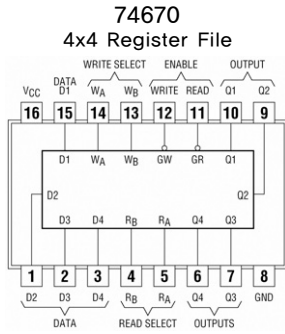


74651, 74652, 74653, 74654
Octal Bus Transceivers and Registers



74668, 74669
Presettable Synchronous 4-Bit Up/Down Binary Counter





74843
9-Bit Bus Interface D-type Latches with 3-state Outputs

