

Here is a list of ICs(Integrated Circuits of the series 74xx) with their Number and Functions. The links will take you to their Pin Out Diagrams. As a Physics student I always felt the need of a quick reference hand/pocket-book while carrying out the practicals in my electronics lab. So I took some time out to build an App(only for windows OS/phones) that would provide the details of each IC quickly and beautifully. If you like the idea here is the link to the app:[Microsoft Store Page](#)

If you find the post useful but use an Android or Apple based system, here is a link to the PDF version>>

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NUMBER	Function
7400	Quad 2 input NAND gates
7401	Quad 2-input NAND gates (open collector)
7402	Quad 2-input NOR gates
7403	Quad 2-input NOR gates(open collector)
7404	Hex inverters
7405	Hex inverters(open collector)
7406	Hex inverter buffer driver
7407	Hex buffer-drivers
7408	Quad 2-input AND gates
7409	Quad 2-input AND gates (open collector)
7410	Triple 3-input NAND Gates
7411	Triple 3-input AND gates
7412	Triple 3-input NAND gates(open collector)
7413	Dual Schmitt Triggers
7414	Hex Schmitt Triggers
7416	Hex inverter buffer-drivers
7417	Hex buffer-drivers
7420	Dual 4-input NAND gates
7421	Dual 4-input AND gates
7422	Dual 4-input NAND gates(open collector)
7423	Expandable dual 4-input NOR gates
7425	Dual 4-input NOR gates
7426	Quad 2-input TTL-MOS interface NAND gates
7427	Triple 3-input NOR gates
7428	Quad 2-input NOR buffer
7430	8-input NAND gate
7432	Quad 2-input OR gates
7437	Quad 2-input NAND buffers
7438	Quad 2-input NAND buffers(open collector)
7439	Quad 2-input NAND buffers(open collector)
7440	Dual 4-input NAND buffers
7441	BCD to Decimal decoder nixie driver
7442	BCD to decimal decoder
7443	Excess 3 to Decimal decoder
7444	Excess Gray to Decimal
7445	BCD to decimal decoder driver

7446	BCD to seven segment decoder drivers(30V)
7447	BCD to seven segment decoder drivers(15V)
7448	BCD to seven segment decoder drivers
7450	Expandable dual 2-input 2-wide AND OR INVERT
7451	Dual 2-input 2-wide AND-OR-INVERT gates
7452	Expandable 2-input 4-wide AND-OR gates
7453	Expandable 2-input 4-wide AND-OR-INVERT gates
7454	2-input 4-wide AND-OR-INVERT gates
7455	Expandable 4-input 2-wide AND-OR-INVERT gates
7459	Dual 2-3 input 2-wide AND-OR-INVERT gates
7460	Dual 4-input expanders
7461	Triple 3-input expanders
7462	2-2-3-3 input 4-wide expanders
7464	2-2-3-4 input 4-wide AND-OR-INVERT gates
7465	4-wide AND-OR-INVERT gates
7470	Edge-triggered JK flip-flop
7472	JK master-slave flip-flop
7473	Dual JK master-slave flip-flop
7474	Dual D flip-flop
7475	Quad latch
7476	Dual JK master Slave Flip Flop
7480	Gates full adder
7482	2-bit binary full adder
7483	4-bit binary full-adder
7485	4-bit magnitude comparator
7486	Quad EXCLUSIVE-OR gates
7489	64-bit random-access-read-write memory
7490	Decade Counter
7491	8-bit shift register
7492	Divide-by-12 counter
7493	4-bit binary counter
7494	4-bit shift register
7495	4-bit right-shift-left-shift register
7496	5-bit parallel-in-parallel-out shift register
74100	4-bit bistable latch
74104	JK master-slave flip-flop
74105	JK master-slave flip-flop
74107	Dual JK master-slave flip-flop
74109	Dual JK positive-edge-triggered flip-flop
74116	Dual 4-bit latches with clear
74121	Monostable Multivibrator
74122	Monostable Multivibrator with clear
74123	Monostable Multivibrator
74125	Three-state quad bus buffer
74126	Three-state quad bus buffer
74132	Quad Schmitt Trigger

74136	Quad 2-input EXCLUSIVE-OR gate
74141	BCD-to-decimal decoder-driver
74142	BCD counter-latch-driver
74145	BCD-to-decimal decoder-driver
74147	10/4 priority encoder
74148	Priority encoder
74150	16-line-to-1-line-multiplexer
74151	8-channel digital multiplexer
74152	8-channel data selector-multiplexer
74153	Dual 4/1 multiplexer
74154	Dual 2/4 demultiplexer
74155	Dual 2/4 demultiplexer
74156	Quad 2/1 data selector
74157	Decade counter with Asynchronous clear
74160	Synchronous 4-bit counter
74161	Synchronous 4-bit counter
74162	Synchronous 4-bit counter
74163	8-bit serial shift register
74164	Parallel-load 8-bit serial shift register
74165	8-bit shift register
74166	Parallel load 8-bit serial shift register
74173	4-bit three state register
74174	Hex F Flip-flop with clear
74175	Quad D flip-flop with clear
74176	35-MHz presetable decade counter
74177	35-MHz presetable binary counter
74179	4-bit parallel access shift register
74180	8-bit odd-even parity generator-checker
74181	Arithmetic Logic Circuit
74182	Look ahead carry generator
74184	BCD to binary converter
74185	Binary to BCD converter
74189	Three-state-64-bit random-access memory
74190	Up-down decade counter
74191	Synchronous binary up-down counter
74192	Binary Up-Down counter
74193	Binary Up-Down Counter
74194	4-bit directional shift register
74195	4-bit parallel access shift register
74196	Presetable Decade Counter
74197	Presetable binary counter
74198	8-bit shift register
74199	8-bit shift register
74221	Dual one shot-Schmitt trigger
74251	Three-state 8-channel multiplexer
74259	8-bit addressable latch

74276	Quad JK flip-flop
74279	Quad debouncer
74283	4-bit binary full adder with fast carry
74284	Three-state 4-bit multiplexer
74285	Three-state 4-bit multiplexer

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Thanks for your support.



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I'm a physicist specializing in theoretical, computational and experimental condensed matter physics. I like to develop Physics related apps and softwares from time to time. Can code in most of the popular languages. Like to share my knowledge in Physics and applications using this Blog and a YouTube channel.

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