Standard Logic ICs

Selection guide



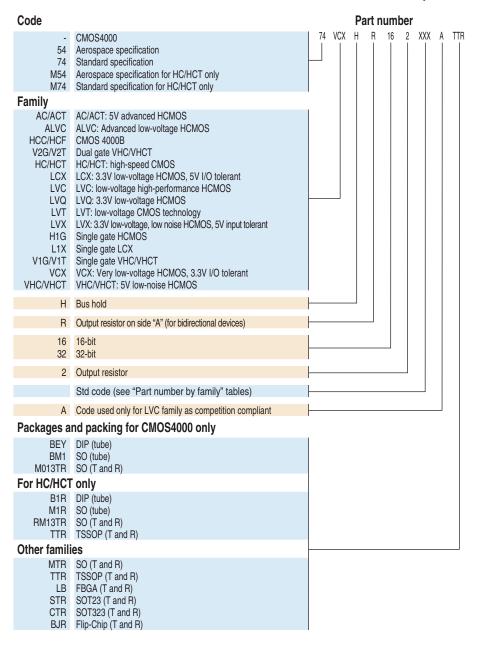
February 2005



Family selector

| Family | Electi | rical characte | ristics | | | Fe | eature | es | | | | Pa | ıckag | es | | |
|-----------|--------------------------|----------------------|---------------------------------|----------------------------------|----------------------|----------------|----------|---------------|-----------------|-----|----|-------|-------|-------|--------|-----------|
| | V_{DD} or V_{CC} [V] | V, [V] | I _O (typ) [mA] | t _{PD} (typ) [ns] | Direct TTL interface | Input tolerant | Bus hold | Bus interface | Output resistor | DIP | 00 | TSSOP | FBGA | SOT23 | S0T323 | Flip-Chip |
| CMOS4000B | 3 to 18 | 0 to V _{DD} | 7 | 45 | | | | | | • | • | | | | | |
| H1G | 2 to 6 | 0 to V _{CC} | | | | | | | | | | | | • | | |
| НС | 2 to 6 | 0 to V _{CC} | 4 | 12 | | | | | | • | • | • | | | | |
| нст | 4.5 to 5.5 | 0 to V _{CC} | 4 | 12 | • | | | | | • | • | • | | | | |
| AC | 2 to 6 | 0 to V _{CC} | 24 | 4 | | | | • | | | • | • | | | | |
| ACT | 4.5 to 5.5 | 0 to V _{CC} | 24 | 4 | • | | | • | | | • | • | | | | |
| VHC | 2 to 5.5 | 0 to 5.5 | 8 | 4 | | • | | • | | | • | • | | | | |
| VHCT | 4.5 to 5.5 | 0 to 5.5 | 8 | 4 | • | • | | • | | | • | • | | | | |
| V1G | 2 to 5.5 | 0 to 5.5 | 8 | 4 | | • | | | | | | | | • | • | |
| V1T | 4.5 to 5.5 | 0 to 5.5 | 8 | 4 | • | • | | | | | | | | • | • | |
| V2G | 2 to 5.5 | 0 to 5.5 | 8 | 4 | | • | | | | | | | | • | | |
| V2T | 4.5 to 5.5 | 0 to 5.5 | 8 | 4 | • | • | | | | | | | | • | | |
| 1107 | 0.1. | | | | | | | | | | _ | | | | | |
| LVX | 2 to 3.6 | 0 to 5.5 | 4 | 4.7 | • | • | | • | | | • | • | | | | |
| LVQ | 2 to 3.6 | 0 to V _{CC} | 12 | 5 | • | | | | | | • | • | | | | |
| LVT | 2.7 to 3.6 | 0 to 3.6 | 64 | | • | • | • | • | | | | • | • | | | |
| LCX | 2 to 3.6 | 0 to 5.5 | 24 | 4 | • | • | • | • | • | | • | • | | _ | | |
| LX1G | 1.65 to 5.5 | 0 to 5.5 | 24 | 4 | • | • | | | | | | | | • | • | • |
| LVC | 1.65 to 3.6 | 0 to 5.5 | 24 | 3 | • | • | | | | | • | • | | | | |
| ALVC | 1.65 to 3.6 | 0 to 3.6 | 24 | 2 | • | • | • | • | | | | • | • | | | |
| VCX | 1.8 to 3.6 | 0 to 3.6 | 24 | 2 | • | • | • | • | • | | | • | • | | | |

Part number description



Mandatory fields
Optional fields

Function selector

| | | | Standa | ard code | | | | | | |
|-------------------|-------------|---------------|--|--|--|--|--|--|--|--|
| Funct | ion | | HC/HCT, AC/ACT, LCX, VHC/VHCT, LVQ, LVX, VCX, LVC, LVT, ALVC, V1G, V1T, H1G, LX1G, V2G, V2T | CMOS 4000 | | | | | | |
| | NAI | ND | 00; 03; 10; 20; 30; 132; 133 | 4011; 4012; 4093 | | | | | | |
| | NO | R | 02; 27 | 4001; 4002 | | | | | | |
| | ANI | D | 08; 09; 11; 21 | 4073; 4081 | | | | | | |
| | OR | | 32; 4072; 4075 | 4071; 4072; 4075 | | | | | | |
| Gate | EX | NOR | 266; 7266 | | | | | | | |
| | EX | OR | 86 | | | | | | | |
| | Inve | erter | 04; 05; 14; U04 | 4069U; 4502 | | | | | | |
| | Mul | tifunction | 51; 4078 | 4019; 4030; 4048; 4068; 4077; 4078 | | | | | | |
| Buffer | | | 07; 4049; 4050; 7007 | 4007U; 4041U; 4049U; 4050; 40106; 40107 | | | | | | |
| | 3-State | | 125; 126; 240; 241; 244; 365; 366; 367; 368; 540; 541; 16240; 16244; 16541; 162244; 162541; H162244; H16244 | | | | | | | |
| | | Bidirectional | 243; 245; 623; 640; 3245; 4245; 16245; 162245; 1632245; C3245; C4245; H162245; H16245; H32245; HR162245; R162245 | | | | | | | |
| | J-K | | 73; 76; 107; 109; 112 | 4027 | | | | | | |
| Flip-Flop | D | | 74; 79; 80; 174; 175; 273; 377 | 4013 | | | | | | |
| ТПРТПОР | | 3-State | 374; 534; 564; 574; 646; 651; 652; 16374; H16374 | | | | | | | |
| Interface circuit | | | | 4009U; 4010; 40109 | | | | | | |
| Latch | | | 75; 77; 259; 279; 7259 | 4042; 4099 | | | | | | |
| | 3-S | tate | 373; 533; 563; 573; 16373; H16373 | | | | | | | |
| Multivibrator | | | 123; 221; 423; 4538 | 4047; 4098; 4538 | | | | | | |
| Decoder | | | 42; 137; 138; 139; 155; 237; 238; 4514; 4515 | 4028; 4555; 4556 | | | | | | |
| Encoder | | | 147; 148 | 4532 | | | | | | |
| Display driver | | | 4511; 4543 | 4033; 4054; 4056; 4511 | | | | | | |
| Register | | | 164; 165; 166; 298; 594; 595; 597 | 4006; 4014; 4015; 4021; 4035 | | | | | | |
| | 3-S | tate | 173; 299; 670 | 4094; 4517 | | | | | | |
| 01 | Bin | ary | 161; 163; 191; 393; 590; 592; 4020; 4024; 4040; 4060; 4520 | 4020; 4024; 4040; 4060; 4520; 4536; 4541; 40103; 40161 | | | | | | |
| Counter | Dec | ade | 160; 190; 192; 390; 4518 | 4029; 4510; 4516; 4518; 40162 | | | | | | |
| | Div | ider | 292; 294; 4017; 40103 | 4017; 4018; 4022 | | | | | | |
| Multiplexer/ | Dig | ital | 4016; 4051; 4052; 4053; 4316; 4351; 4851; 4852 | 4016; 4051; 4052; 4053; 4067; 4097 | | | | | | |
| demultiplexer | Ana | alog | 151; 153; 157; 158; 251; 253; 257 | 4512; 40257 | | | | | | |
| Switch | | | 66; 70; 384; 4066; | 4066 | | | | | | |
| Phase locked loop | | | | 4046 | | | | | | |
| Crosspoint | | | | M22100 | | | | | | |
| | Add | der | 283 | | | | | | | |
| Othere | Cor | nparator | 85; 688 | 4063; 4585 | | | | | | |
| Others | Alu | /multiplexer | | 4089; 4527 | | | | | | |
| | Parity tree | 280 | | | | | | | | |
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| Std code | 오 | нст | AC | ACT | VHC | VHCT | ГСХ | LVQ | LVX | vcx | LVC | LVT | ALVC | CMOS4000B | V1G | V1T | H1G | LX1G | V2G | V2T | PIN * |
| 00 | | | | | | | | | | | | | | | • | • | | • | • | • | 14 |
| 02 | • | • | • | • | • | • | • | • | • | | | | | | • | • | | • | • | • | 14 |
| 03 | | | | | • | | | | | | | | | | • | • | | | | | 14 |
| 04 | • | • | • | • | • | | • | • | • | | • | | | | • | • | | • | • | • | 14 |
| 05 | • | | | | • | • | • | | • | | | | | | • | • | | • | • | • | 14 |
| 07 08 | | • | • | • | | • | • | | • | | | | | | • | • | | • | • | • | 14 |
| 09 | • | • | | • | • | • | | • | • | | • | | | | • | - | | • | • | • | 14 14 |
| 10 | • | • | • | • | | | | • | | | | | | | | | | | | | 14 |
| 11 | • | | • | | | | | | | | | | | | | | | | | | 14 |
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| 20 | • | | • | • | • | • | | | • | | | | | | | | | | | | 14 |
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| 27 | • | | | | • | • | | | • | | | | | | | | | | | | 14 |
| 30 | • | | | | | | | | | | | | | | | | | _ | | | 14 14 |
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| 51 | • | | | | | | | | | | | | | | | | | | | | 14 |
| 66 | | | | | | | | | | | | | | | • | • | • | _ | • | • | 14 |
| 70 | | | | | | | | | | | | | | | • | • | | • | • | • | |
| 73 | • | | | | | | | | | | | | | | | | | | | | 14 |
| 74 | • | | • | | • | | | | | | | | | | | | | | | | 14 |
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| 86 | • | • | • | | | • | | | • | | • | | | | • | • | | • | | • | 14 |
| 107 | • | | | | | | | | | | | | | | | | | | | | 14 |
| 109 | • | | | | | | | | | | | | | | | | | | | | 16 |
| 112 | • | | | | | | | | | | | | | | | | | | | | 16 |
| 123 | • | | | | | | | | | | | | | | | | | | | | 16 |
| 125 | • | • | • | • | • | • | • | • | • | | | | | | • | • | | • | • | • | 14 |
| 126 | • | • | | | • | • | | | • | | • | | | | • | • | | • | • | • | 14 |
| 132 | • | • | | | | • | | | • | | | | | | | | | • | | • | 14 |
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| 139 | • | | | | • | • | • | | • | | | | | | | | | | | | 16 |
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^{*} Not for single or dual gate

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| | | | | | | Star | ndaro | l fam | ilies | | | | | | 5 | Single | gat | е | Du ga | | |
| | | | | | | | | | | | | | | | | | | | | | |
| Std code | 웃 | НСТ | AC | ACT | VHC | VHCT | ГСХ | LVQ | LVX | VCX | LVC | LVT | ALVC | CMOS4000B | V1G | V1T | H1G | LX1G | V2G | V2T | PIN * |
| 164 | | | | | | | | | | | | | | | | | | | | | 14 |
| 165 | • | | | | | | | | | | | | | | | | | | | | 16 |
| 166 | • | | | | | | | | | | | | | | | | | | | | 16 |
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^{*} Not for single or dual gate

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| | | | | | | Star | ndaro | l fam | ilies | | | | | | 5 | Single | e gate | 9 | Du ga | | |
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| Std code | 웃 | нст | AC | ACT | VHC | VHCT | ГСХ | LVQ | LVX | VCX | LVC | LVT | ALVC | CMOS4000B | V1G | V1T | H1G | LX1G | V2G | V2T | * NIG |
| 592 | • | | | | | | | | | | | | | | | | | | | | 16 |
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| 4010 | | | | | | | | | | | | | | • | | | | | | | 16 |
| 4011 | | | | | | | | | | | | | | • | | | | | | | 14 |
| 4012 | | | | | | | | | | | | | | • | | | | | | | 14 |
| 4013 | | | | | | | | | | | | | | • | | | | | | | 14 |
| 4014 | | | | | | | | | | | | | | • | | | | | | | 16 |
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| 4019 | | | | | | | | | | | | | | • | | | | | | | 16 |
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| 4051 | • | • | | | | | | | | | | | | • | | | | | | | 16 |
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| 4054 | | | | | | | | | | | | | | • | | | | | | | 16 |
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^{*} Not for single or dual gate

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| Std code | | F | | ACT | VHC | VHCT | č | LVQ | × | ΛCX | LVC | F | ALVC | NOS | G | _ | HIG | LX1G | V2G | ь | * N |
| 20 | 오 | HCT | AC | ¥ | > | > | 2 | 2 | LVX | × | 2 | ₹ | ¥ | ົວ | V1G | V1T | 王 | 2 | 2 | V2T | ₫ |
| 4067 | | | | | | | | | | | | | | • | | | | | | | 24 |
| 4068 | | | | | | | | | | | | | | • | | | | | | | 14 |
| 4071 | | | | | | | | | | | | | | • | | | | | | | 14 |
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| 4089 | | | | | | | | | | | | | | • | | | | | | | 16 |
| 4093 | | | | | | | | | | | | | | • | | | | | | | 14 |
| 4094 | • | | | | | | | | | | | | | • | | | | | | | 16 |
| 4097 | | | | | | | | | | | | | | • | | | | | | | 24 |
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| 4099 | | | | | | | | | | | | | | • | | | | | | | 16 |
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| 4510 | | | | | | | | | | | | | | • | | | | | | | 16 |
| 4511 | • | | | | | | | | | | | | | • | | | | | | | 16 |
| 4512 | | | | | | | | | | | | | | • | | | | | | | 16 |
| 4514 | • | | | | | | | | | | | | | | | | | | | | 24 |
| 4515 | • | | | | | | | | | | | | | | | | | | | | 24 |
| 4516 | | | | | | | | | | | | | | • | | | | | | | 16 |
| 4517 | | | | | | | | | | | | | | • | | | | | | | 16 |
| 4518 4520 | • | | | | | | | | | | | | | • | | | | | | | 16 16 |
| 4527 | | | | | | | | | | | | | | • | | | | | | | 16 |
| 4532 | | | | | | | | | | | | | | • | | | | | | | 16 |
| 4536 | | | | | | | | | | | | | | • | | | | | | | 16 |
| 4538 | • | | | | | | | | | | | | | • | | | | | | | 16 |
| 4541 | | | | | | | | | | | | | | • | | | | | | | 14 |
| 4543 | • | | | | | | | | | | | | | • | | | | | | | 16 |
| 4555 4556 | | | | | | | | | | | | | | • | | | | | | | 16 16 |
| 4585 | | | | | | | | | | | | | | • | | | | | | | 16 |
| 4851 | • | | | | | | | | | | | | | - | | | | | | | 16 |
| 7007 | | • | | | | | | | | | | | | | | | | | | | 14 |
| 7259 | | • | | | | | | | | | | | | | | | | | | | 16 |
| 7266 | • | | | | | | | | | | | | | | | | | | | | 14 |
| 40103 | • | | | | | | | | | | | | | • | | | | | | | 16 |
| 40106 | | | | | | | | | | | | | | • | | | | | | | 14 |
| 40107 | | | | | | | | | | | | | | • | | | | | | | 8 |
| 40109 40161 | | | | | | | | | | | | | | • | | | | | | | 16 16 |
| 40162 | | | | | | | | | | | | | | • | | | | | | | 16 |
| 40257 | | | | | | | | | | | | | | • | | | | | | | 16 |
| 4007U | | | | | | | | | | | | | | • | | | | | | | 14 |
| 4009U | | | | | | | | | | | | | | • | | | | | | | 16 |
| 4041U | | | | | | | | | | | | | | • | | | | | | | 14 |

^{*} Not for single or dual gate

| | | | | | | | | | | | | | | | | | | | , | | |
|----------|---|-----|----|-----|-----|------|-------|-------|-------|-----|-----|----|------|-----------|-----|--------|-----|--------------|----------|-----|--------|
| | | | | | | Star | ndarc | l fam | ilies | | | | | | | Single | gat | • | Dı ga | | |
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| Std code | | | | | | F | | _ | | J | | | ပ္ | CMOS4000B | _ | | | _o | _ | | * |
| Std | 오 | HCT | AC | ACT | KHC | VHCT | Ľ | LVQ | LXX | VCX | LVC | Ϋ́ | ALVC | CMC | 719 | V1T | HIG | LX1G | V2G | V2T | * N |
| 4049U | | | | | | | | | | | | | | • | | | | | | | 16 |
| 4069U | | | | | | | | | | | | | | • | | | | | | | 14 |
| 1284 | | | | • | | | | | | | | | | | | | | | | | 20 |
| 3245 | | | | | | | | | • | | | | | | | | | | | | 24 |
| 4245 | | | | | | | | | • | | | | | | | | | | | | 24 |
| 8244 | | | | • | | | | | | | | | | | | | | | | | 20 |
| 16240 | | | | | • | • | • | | • | • | | | | | | | | | | | 48 |
| 16244 | | | • | • | • | • | • | | • | • | | • | | | | | | | | | 48 |
| 16245 | | | • | • | • | • | • | | • | • | | | | | | | | | | | 48 |
| 16373 | | | • | • | • | • | • | | • | • | | | | | | | | | | | 48 |
| 16374 | | | • | • | • | • | • | | • | • | | | | | | | | | | | 48 |
| 16541 | | | • | | | | • | | | | | | | | | | | | | | 48 |
| 161284 | | | | | | | | | | | • | | | | | | | | | | 48 |
| 162244 | | | | | | | • | | | • | | | | | | | | | | | 48 |
| 162245 | | | | | | | | | | • | | | | | | | | | | | 48 |
| 162541 | | | | | | | | | | | | | | | | | | | | | 48 |
| 1632245 | | | | | | | | | | • | | | | | | | | | | | 48 |
| C3245 | | | | | | | | | • | | | | | | | | | | | | 24 |
| C4245 | | | | | | | | | • | | | | | | | | | | | | 24 |
| H162244 | | | | | | | • | | _ | | | | | | | | | | | | 48 |
| H162245 | | | | | | | | | | • | | | | | | | | | | | 48 |
| H16244 | | | | | | | | | | • | | | • | | | | | | | | 48 |
| H16245 | | | | | | | • | | | • | | | • | | | | | | | | 48 |
| H16373 | | | | | | | | | | • | | | • | | | | | | | | 48 |
| H16374 | | | | | | | | | | • | | | • | | | | | | | | 48 |
| H32245 | | | | | | | | | | • | | | | | | | | | | | 96 |
| HR162245 | | | | | | | • | | | | | | | | | | | | | | 48 |
| R162245 | | | | | | | • | | | | | | | | | | | | | | 48 |
| U04 | • | | | | • | | • | | • | | • | | | | • | | | • | • | | 14 |
| Z161284 | | | | | | | | | | | • | | | | | | | | | | 48 |

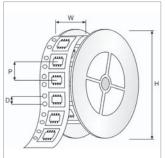
^{*} Not for single or dual gate

Single gate = 5 pin packages

Dual gate = 8 pin package

Surface mounting packages



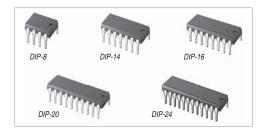


SO, TSSOP, SOT23-XL and SOT323-XL tape and reel (EIA RS 481 outline)

| Package | H (inch) | W (tape width mm) | P (mm) | D (mm) |
|--|----------|-------------------|--------|--------|
| SO-8, TFBGA42 | 13 | 12 | 8 | 4 |
| SO-14, SO-16, TSSOP14, TSSOP16, TFBGA54 | 13 | 16 | 8 | 4 |
| SO-16L, TSSOP20, TSSOP24 | 13 | 16 | 12 | 4 |
| SO-20, SO-24, TSSOP48 | 13 | 24 | 12 | 4 |
| SOT23-5L/8L, SOT323-5L, Flip-Chip4 | 7 | 8 | 4 | 4 |
| LFBGA96 | 13 | 24 | 8 | 4 |

| Package | Quantity |
|--|-----------|
| SO-8, SO-14, SO-16, TSSOP16, TSSOP20, TSSOP24, TFBGA54 | 2,500 pcs |
| TSSOP48 | 2,000 pcs |
| SO-16L, SO-20, SO-24 | 1,000 pcs |
| SOT323-5L, SOT23-5L/8L, TFBGA42, Flip-Chip4 | 3,000 pcs |
| LFBGA96 | 3,500 pcs |

Through-hole packages



| Package | Base qty | Bulk qty |
|-----------|----------|-----------|
| DIP-8 | 50 pcs | 2,000 pcs |
| DIP-14/16 | 25 pcs | 1,000 pcs |
| DIP-20 | 20 pcs | 1,000 pcs |
| DIP-24 | 15 pcs | 750 pcs |



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Full product information at www.st.com

