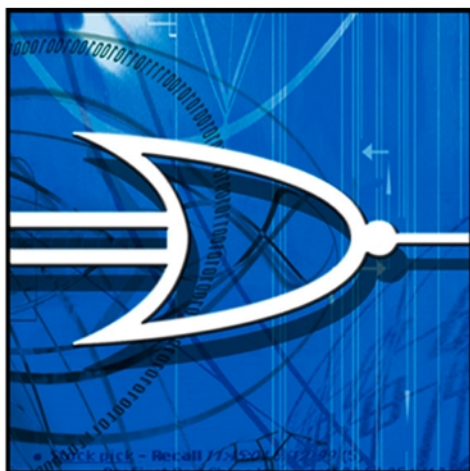
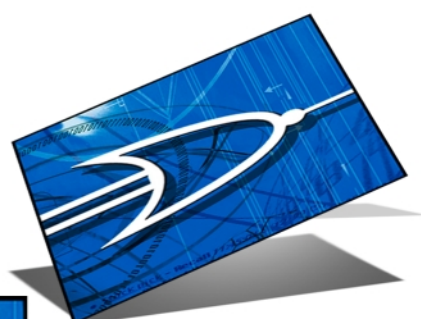
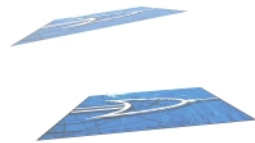


Standard Logic

The Complete CMOS Logic Source



Selection Guide

STMicroelectronics
More Intelligent Solutions





FUNCTION SELECTOR

FUNCTION		HC/HCT,AC/ACT,VHC/VHCT, LCX,LVQ,LVX,VCX, LVC,V2G,V2T, V1G,V1T STANDARD CODE	CMOS 4000B STANDARD CODE
GATE BUFFER	NAND	00, 03, 10, 30, 133	4011B, 4012B, 4023B, 4068B, 40107B
	NOR	02, 27, 4002	4000B, 4001B, 4002B, 4025B
	AND	08, 09, 11, 21	4068B, 4073B, 4081B, 4082B
	OR	32, 4072, 4075	4071B, 4072B, 4075B
	EX NOR	266, 7266	4077B
	EX OR	86, 386	4030B, 4070B
	INVERTER	04, 05, 14	4069UB, 4502B
	BUFFER	07, 4049, 4050, 7007	4007UB, 4009UB, 4010B, 4041UB 4049UB, 4050B, 4052B, 40107B
	3-STATE	125,126, 240, 241, 244, 365, 366, 367, 368, 540, 541	4503B
	16-32 BIT	16240, 16244, 16541, 32240, 32244	
	BIDIRECTIONAL	242, 243, 245, 620, 623, 640, 643 4245, 3245, C4245, C3245	
	16-32 BIT	16245, 162245, HR162245, 32245, 32245	
MULTIFUNCTION	51, 4078	4019B, 4030B, 4048B, 4070B, 4077B	
SCHMITT TRIGGER	14, 132	4093B, 40106B	
FLIP - FLOP	J-K FLIP-FLOP	73, 76, 107, 109, 112, 113	4027B, 4095B, 4096B
	D FLIP-FLOP	74, 79, 80, 174, 175, 273, 377	4013B, 4076B, 40174B
	3-STATE	374, 534, 564, 574, 646, 648, 651, 652	
	16-32BIT	16374, 32374	
INTERFACE CIRCUIT			4009UB, 4010UB, 40109B
LATCH		75, 77, 259, 279, 375, 7259	4042B, 4043B, 4044B, 4099B,4720B
	3-STATE	373, 533, 563, 573	
	16-32BIT	16373, 32373	
MULTIVIBRATOR	123, 221, 423, 4538	4047B, 4098B, 4538B	
DECODER		42, 131, 137, 138, 139, 154, 155, 237, 238, 4028, 4514, 4515	4028B, 4514B, 4515B, 4555B,4556B
	7-SEGMENT	4511, 4543	
		147, 148	4532B, 40147B
ENCODER		147, 148	4532B, 40147B
DISPLAY DRIVER			4054B, 4055B, 4056B, 4511B, 4543B
	WITH COUNTER		4026B, 4033B, 40110B
REGISTER		164, 165, 166, 194, 195, 595, 597, 289, 299	4006B, 4014B, 4015B, 4021B,4031B, 4034B, 4035B, 4017B, 40100B, 4076B, 4099B, 40104B, 40105B, 40108B, 40194B, 40208B
	3-STATE	173, 299, 323, 670, 4094	4094B, 4517B
		161, 163, 191,193, 393, 590, 592, 593, 691, 693, 697, 699, 4020, 4024, 4040, 4060, 4520	4017B, 4020B, 4024B, 4039B, 4040B 4060B, 4516B, 4520B, 4536B, 4541B, 40103B, 40161B, 40163B, 40193B
COUNTER	BINARY	160, 162, 190, 192, 390, 690, 692, 696, 698, 4518	4029B, 4510B, 4518B, 40102B, 40160B, 40162B, 40192B
	DECADE	292, 4017, 4022, 40102, 40103, 7292, 7294	4017B, 4018B, 4022B, 4024B, 4040B, 4045B, 4060B, 4521B
	DIVIDER		4016B, 4066B, 4051B, 4052B, 4053B, 4067B, 4097B
MULTIPLEXER/ DEMULTIPLEXER	ANALOG	4016, 4066, 4051, 4052, 4053, 4316, 4351, 4352, 4353, 4851, 4852	4016B, 4066B, 4051B, 4052B, 4053B, 4067B, 4097B
	DIGITAL	151, 153, 157, 158, 257, 352, 353, 354, 356	4019B, 4512B, 4519B, 4555B, 4556B, 40257B
SWITCH	ANALOG	66, 67, 384, 719, 3157, 3699, 4066	4066, 4053
PHASE LOCKED LOOP			4046B
CROSSPOINT SWITCH	4X4		22100
OTHERS	ADDER	283	4008B, 4032B, 4038B
	COMPARATOR	85, 688	4030B,4063B,4070B,4077B,4585B,40101B
	ALU/MULTIPLEXER	181, 182	4089B, 4527B, 40181B, 40182B
	PARITY TREE	280	



MORE THAN 700 FUNCTIONS



STANDARD DEVICES WITH THE RIGHT V_{CC}

1.65 to 3.6V	ALVC	1.65V to 3.6V, 3.6V I/O tolerant
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1.8V to 3.6V	VCX	1.8V to 3.6V, 3.6V I/O tolerant
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3.3V	LVC	1.65V to 3.6V, 5V I/O tolerant
	LCX	2V to 3.6V, 5V I/O tolerant
	L VX	2V to 3.6V, 5V Input tolerant
	LVQ	2V to 3.6V

5V	HC	2V to 6V
	HCT	4.5V to 5.5V
	AC	2V to 6V
	ACT	4.5V to 5.5V
	VHC	2V to 5.5V, low noise
	VHCT	4.5V to 5.5V, low noise
	CMOS 4000B	3V to 18V

APPLICATION SPECIFIC STANDARD DEVICES

Automotive/Industrial

STPIC6C595	8-bit power logic shift register
STPIC6A259	8-bit power logic addressable latch
STPIC44L02	low side pre-FET driver
STP16C596	16-bit led sink driver (coming soon)

Telecom

STM7E1A	7 E1 Channel Switch Array, 2Ω
74GTL1655	16-bit LVTTTL to GTL/GTL + universal bus transceiver with live insertion
74ACT8244	relay driver for line card

Printer Peripherals IEEE

74ACT1284	high-speed transceiver
74LVC/Z161284A	3V high-speed 16-bit transceiver

Set -Top -Box

74ACT32701	16-bit D-type latch / 16-bit bus transceiver
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SINGLE / DUAL GATES & SWITCHES

HC: H1G single switch, 2 to 12V

VHC: V1G single gates & switches, 2 to 5.5V
V2G dual gates & switches, 2 to 5.5V

VHCT: V1T single gates & switches, 4.5 to 5.5V
V2T dual gates & switches, 4.5 to 5.5V

LCX: LX1G single gate logic, 1.65 to 5.5V

B5S: bus switch, 4 to 5.5V

B3S: bus switch, 2.3 to 3.6V

COMPLIANCE TO AUTOMOTIVE REQUIREMENTS

- High quality standards
- Wide portfolio
- Extended temperature range (-55°C to +125°C)
- Dice delivery
- Long term vision
- Reliability and consistency

1.8V



VCX VERY HIGH SPEED, LOW VOLTAGE

With 3.6V Input/Output Tolerance



SYMBOL	PARAMETER	VALUE	UNIT
V _{cc}	Supply Voltage	1.8 to 3.6	V
V _i	Input Voltage	0 to 3.6	V
Top	Operating Temperature	-55 to 125	°C
I _o	Output Current: @ V _{cc} =3V	24	mA
	@ V _{cc} = 2.3V	18	mA
	@ V _{cc} = 1.8V	6	mA
tpd	Delay Time @V _{cc} = 2.3V	3.2(max)*	ns

* Referred to 74VCX16244

F	TYPE	PIN	
16 BIT	74VCX	16240	48
16 BIT	74VCX	162240	48
16 BIT	74VCXH	16240	48
16 BIT	74VCXH	162240	48
16 BIT	74VCX	16244	48/54
16 BIT	74VCX	162244	48
16 BIT	74VCXH	16244	48
16 BIT	74VCXH	162244	48
16 BIT	74VCX	16245	48/54
16 BIT	74VCX	162245	48
16 BIT	74VCXR	162245	48
16 BIT	74VCXH	16245	48
16 BIT	74VCXH	162245	48

Note: 48 pin = TSSOP, 54 pin = TFPGA, 96 pin = LFBGA

DEVICE	TSSOP (T&R)
BASIC TYPE	74VCX16xxxTTR
BUS HOLD	74VCXH16xxxTTR
OUTPUT RESISTORS	74VCX162xxxTTR
OUT. RES. ON BOTH SIDES	74VCXR162xxxTTR
BUS HOLD + OUT.RES.	74VCXH162xxxTTR

DEVICE	LFBGA96
BUS HOLD	74VCXH32xxxLB

F	TYPE	PIN	
16 BIT	74VCX	16373	48
16 BIT	74VCX	162373	48
16 BIT	74VCXH	16373	48
16 BIT	74VCXH	162373	48
16 BIT	74VCX	16374	48
16 BIT	74VCX	162374	48
16 BIT	74VCXH	162374	48
16 BIT	74VCXH	16374	48
32 BIT	74VCXH	32240	96
32 BIT	74VCXH	32244	96
32 BIT	74VCXH	32245	96
32 BIT	74VCXH	32373	96
32 BIT	74VCXH	32374	96

1.65V



ALVC ADVANCED LOW VOLTAGE

With 3.6V Input/Output Tolerance



F	TYPE	PIN	
16 bit	74ALVC	H16240	48
16 bit	74ALVC	H162240	48
16 bit	74ALVC	H16244	48
16 bit	74ALVC	H162244	48
16 bit	74ALVC	H16245	48
16 bit	74ALVC	H162245	48
16 bit	74ALVC	HR162245	48
16 bit	74ALVC	H16373	48
16 bit	74ALVC	H162373	48
16 bit	74ALVC	H16374	48
16 bit	74ALVC	H162374	48
16 bit	74ALVC	R162245	48
32 bit	74ALVC	H32244	96
32 bit	74ALVC	H32245	96
32 bit	74ALVC	H32373	96
32 bit	74ALVC	H32374	96

SYMBOL	PARAMETER	VALUE	UNIT
V _{cc}	Supply Voltage	1.65 to 3.6	V
V _i	Input Voltage	0 to 3.6	V
Top	Operating Temperature	-55 to 125	°C
I _o	Output Current:		
	@ V _{cc} =3V	24	mA
	@ V _{cc} = 2.3, 2.7V	12	mA
	@ V _{cc} = 1.65V	4	mA
tpd	Delay Time @V _{cc} = 2.3V	3.2 (max)	ns

DEVICE	ORDER CODE
BUS HOLD	74ALVCH16xxxT
BUS HOLD+OUT.RES. ON "A" SIDE	74ALVCH162xxxT
BUS HOLD+OUT.RES. ON "B" SIDE	74ALVCHR16245T
BUS HOLD+OUT.RES.ON BOTH SIDES	74ALVCHR162245T
32 BIT WITH BUS HOLD	74ALVCH32XXXLB

3.3V



LCX LOW VOLTAGE

With 5V Input/Output Tolerance

SYMBOL	PARAMETER	VALUE	UNIT
V _{cc}	Supply Voltage	2.7 to 3.6	V
V _i	Input Voltage	0 to 5.5	V
Top	Operating Temperature	-55 to 125	°C
I _o	Output Current	24	mA
t _{pd}	Delay Time @V _{cc} = 3.3V	4 (typ)*	ns

* Referred to octal device

F	TYPE	PIN
G	74LCX 00	14
G	74LCX 02	14
G	74LCX 04	14
G	74LCX 05	14
G	74LCX U04	14
G	74LCX 07	14
G	74LCX 08	14
S	74LCX 14	14
G	74LCX 32	14
S	74LCX 74	14
S	74LCX 86	14
S	74LCX 125	14
M	74LCX 138	16
M	74LCX 139	16
M	74LCX 157	16
O	74LCX 240	20
O	74LCX 244	20
O	74LCX 245	20
M	74LCX 257	16
O	74LCX 373	20

F: Function; G: Gate; S: Small Scale Integration; M: Medium Scale Integration; O: Octal.

PACKAGE	ORDER CODE
SO (tube)	74LCXxxxM
SO (T&R)	74LCXxxxMTR
TSSOP (T&R) Basic Type	74LCXxxxTTR
TSSOP (T&R) Output Resistors	74LCX162xxxTTR
TSSOP (T&R) Bus Hold + Out. Res	74LCXH162xxxTTR

F	TYPE	PIN
O	74LCX 374	20
O	74LCX 540	20
O	74LCX 541	20
O	74LCX 573	20
O	74LCX 574	20
O	74LCX 646	20
O	74LCX 652	20
16BIT	74LCX 16240	48
16BIT	74LCX 16244	48
16BIT	74LCX 16245	48
16BIT	74LCXH 16245	48
16BIT	74LCX 16373	48
16BIT	74LCX 16374	48
16BIT	74LCX 16541	48
16BIT	74LCX 162244	48
16BIT	74LCXH 162244	48
16BIT	74LCXH 162245	48
16BIT	74LCXR 162245	48
16BIT	74LCXHR 162245	48
16BIT	74LCX 162541	48

3.3V



LVX LOW VOLTAGE

With 5V Input Tolerance

SYMBOL	PARAMETER	VALUE	UNIT
V _{cc}	Supply Voltage	2 to 3.6	V
V _i	Input Voltage	0 to 5.5	V
Top	Operating Temperature	-55 to 125	°C
I _o	Output Current	4	mA
t _{pd}	Delay Time	4.7 (typ)*	ns

* Referred to octal device

F	TYPE	PIN
G	74LVX 00	14
G	74LVX 02	14
G	74LVX 03	14
G	74LVX 04	14
G	74LVX U04	14
G	74LVX 05	14
G	74LVX 08	14
S	74LVX 14	14
G	74LVX 20	14
G	74LVX 27	14
G	74LVX 32	14
S	74LVX 74	14
S	74LVX 86	14
S	74LVX 125	14
S	74LVX 126	14
S	74LVX 132	14
M	74LVX 138	16
M	74LVX 139	16

F: Function; G: Gate; S: Small Scale Integration; M: Medium Scale Integration; O: Octal.

PACKAGE	ORDER CODE
SO (tube)	74LVXxxxM
SO (T&R)	74LVXxxxMTR
TSSOP (T&R)	74LVXxxxxTTR

F	TYPE	PIN
M	74LVX 157	16
M	74LVX 174	16
M	74LVX 238	16
O	74LVX 240	20
O	74LVX 244	20
O	74LVX 245	20
O	74LVX 257	16
O	74LVX 273	20
O	74LVX 373	20
O	74LVX 374	20
O	74LVX 541	20
O	74LVX 573	20
O	74LVX 574	20
16BIT	74LVX 16240	48
16BIT	74LVX 16244	48
16BIT	74LVX 16245	48
16BIT	74LVX 16373	48
16BIT	74LVX 16374	48

3.3V



LVC LOW VOLTAGE

With 5V Input / Output Tolerance

F	TYPE	PIN
G	74LVC 00A	14
G	74LVC 04A	14
G	74LVC U04A	14
G	74LVC 08A	14
S	74LVC 14A	14
G	74LVC 32A	14
S	74LVC 86A	14
S	74LVC 125A	14
O	74LVC 244A	20
O	74LVC 245A	20
O	74LVC 373A	20
O	74LVC 541A	20
O	74LVC 573A	20
16 bit	74LVC 161284	48
16 bit	74LVCZ 161284A	48

F: Function; G: Gate; S: Small Scale Integration; O: Octal.

SYMBOL	PARAMETER	VALUE	UNIT
Vcc	Supply Voltage	1.65 to 3.6	V
Vi	Input Voltage	1.65 to 5.5	V
Top	Operating Temperature	-55 to 125	°C
Io	Output Current	24	mA
tpd	Delay Time	3 (typ)*	ns

* Referred to octal device

PACKAGE	ORDER CODE
SO (tube)	74LVCxxxAM
SO (T&R)	74LVCxxxAMTR
TSSOP (T&R)	74LVCxxxATTR

3.3V



LVQ LOW VOLTAGE

SYMBOL	PARAMETER	VALUE	UNIT
Vcc	Supply Voltage	2 to 3.6	V
Vi	Input Voltage	0 to Vcc	V
Top	Operating Temperature	-55 to 125	°C
Io	Output Current	12	mA
tpd	Delay Time @ Vcc= 3.3V	5 (typ)*	ns

* Referred to 74LVQ244

PACKAGE	ORDER CODE
SO (tube)	74LVQxxxxM
SO (T&R)	74LVQxxxxMTR
TSSOP (T&R)	74LVQxxxxTTR

F	TYPE	PIN
G	74LVQ 00	14
G	74LVQ 02	14
G	74LVQ 04	14
G	74LVQ 08	14
G	74LVQ 10	14
G	74LVQ 11	14
S	74LVQ 14	14
G	74LVQ 20	14
G	74LVQ 32	14
S	74LVQ 74	14
S	74LVQ 86	14
S	74LVQ 125	14
M	74LVQ 138	16
M	74LVQ 157	16
M	74LVQ 158	16
M	74LVQ 161	16

F: Function; G: Gate; S: Small Scale Integration; M: Medium Scale Integration; O: Octal.

F	TYPE	PIN
M	74LVQ 163	16
M	74LVQ 174	16
O	74LVQ 240	20
O	74LVQ 241	20
O	74LVQ 244	20
O	74LVQ 245	20
O	74LVQ 273	20
M	74LVQ 280	14
O	74LVQ 299	20
O	74LVQ 373	20
O	74LVQ 374	20
O	74LVQ 541	20
O	74LVQ 573	20
O	74LVQ 574	20
S	74LVQ 4066	14

=5V



HC, HCT HIGH SPEED CMOS

SYMBOL	PARAMETER	VALUE	UNIT
V _{cc}	Supply Voltage: HC series HCT series	2 to 6 4.5 to 5.5	V V
V _i	Input Voltage	0 to V _{cc}	V
Top	Operating Temperature	-55 to 125	°C
I _o	Output Current @ V _{cc} =5V	4	mA
t _{pd}	Delay Time @ V _{cc} =4.5V CL=50pF	12 (typ)*	ns

* Referred to M74HC244

PACKAGE	ORDER CODE	
	HC	HCT
DIP (tube)	M74HCxxxB1R	M74HCTxxxB1R
SO (tube)	M74HCxxxM1R	M74HCTxxxM1R
SO (T&R)	M74HCxxxRM13TR	M74HCTxxxRM13TR
TSSOP (T&R)	M74HCxxxTTR	M74HCTxxxTTR

F	TYPE	PIN
G	M74HC 00	14
G	M74HCT 00	14
G	M74HC 02	14
G	M74HCT 02	14
G	M74HC 03	14
G	M74HC 04	14
G	M74HCT 04	14
G	M74HCU 04	14
G	M74HC 05	14
G	M74HCT 05	14
G	M74HC 07	14
G	M74HCT 07	14
G	M74HC 08	14
G	M74HCT 08	14
G	M74HC 09	14
G	M74HC 10	14
G	M74HCT 10	14
G	M74HC 11	14
S	M74HC 14	14
S	M74HCT 14	14
G	M74HC 20	14
G	M74HC 21	14
G	M74HC 27	14
G	M74HCT 27	14
G	M74HC 30	14
G	M74HCT 30	14
G	M74HC 32	14
G	M74HCT 32	14
M	M74HC 42	16
G	M74HC 51	14
S	M74HC 73	14
S	M74HC 74	14
S	M74HCT 74	14
S	M74HC 75	16
S	M74HCT 75	16
S	M74HC 76	16
M	M74HC 77	14
M	M74HC 85	16
S	M74HC 86	14
S	M74HCT 86	14
S	M74HC 107	14
S	M74HC 109	16
S	M74HC 112	16
S	M74HC 113	14
M	M74HC 123	16
M	M74HC 123A	16
S	M74HC 125	14
S	M74HCT 125	14
S	M74HC 126	14
S	M74HCT 126	14
M	M74HC 131	16
S	M74HC 132	14
S	M74HCT 132	14
G	M74HC 133	14
M	M74HC 137	16
M	M74HCT 137	16
M	M74HC 138	16
M	M74HCT 138	16
M	M74HC 139	16

F	TYPE	PIN
M	M74HC 147	16
M	M74HC 148	16
M	M74HC 151	16
M	M74HC 153	16
M	M74HC 154	24
M	M74HC 155	16
M	M74HC 157	16
M	M74HCT 157	16
M	M74HC 158	16
M	M74HCT 158	16
M	M74HC 160	16
M	M74HCT 160	16
M	M74HC 161	16
M	M74HCT 161	16
M	M74HC 162	16
M	M74HCT 162	16
M	M74HC 163	16
M	M74HCT 163	16
M	M74HC 164	14
M	M74HCT 164	14
M	M74HC 165	16
M	M74HCT 165	16
M	M74HC 166	16
M	M74HC 173	16
M	M74HC 174	16
M	M74HCT 174	16
M	M74HC 175	16
M	M74HC 181	24
M	M74HC 182	16
M	M74HC 190	16
M	M74HC 191	16
M	M74HC 192	16
M	M74HC 193	16
M	M74HC 194	16
M	M74HC 195	16
M	M74HC 221	16
M	M74HC 221A	16
M	M74HC 237	16
M	M74HC 238	16
O	M74HC 240	20
O	M74HCT 240	20
O	M74HC 241	20
O	M74HCT 241	20
M	M74HC 242	14
M	M74HC 243	14
O	M74HC 244	20
O	M74HCT 244	20
O	M74HC 245	20
O	M74HCT 245	20
M	M74HC 251	16
M	M74HC 253	16
M	M74HC 257	16
M	M74HCT 257	16
M	M74HC 258	16
M	M74HCT 258	16
M	M74HC 259	16
S	M74HC 266	14
O	M74HC 273	20

F	TYPE	PIN
O	M74HCT 273	20
M	M74HC 279	16
M	M74HC 280	14
M	M74HC 283	16
M	M74HC 292	16
M	M74HC 294	16
M	M74HC 298	16
O	M74HC 299	20
M	M74HC 323	20
M	M74HC 352	16
M	M74HC 353	16
M	M74HC 354	20
M	M74HC 356	20
S	M74HC 365	16
S	M74HC 366	16
M	M74HC 367	16
S	M74HCT 367	16
S	M74HC 368	16
S	M74HCT 368	16
O	M74HC 373	20
O	M74HCT 373	20
O	M74HC 374	20
O	M74HCT 374	20
O	M74HC 375	20
O	M74HC 377	20
S	M74HC 386	14
M	M74HC 390	16
M	M74HC 393	14
M	M74HCT 393	14
M	M74HC 423	16
M	M74HC 423A	16
O	M74HC 533	20
O	M74HCT 533	20
O	M74HC 534	20
O	M74HCT 534	20
O	M74HC 540	20
O	M74HCT 540	20
O	M74HC 541	20
O	M74HCT 541	20
O	M74HC 563	20
O	M74HCT 563	20
O	M74HC 564	20
O	M74HCT 564	20
O	M74HC 573	20
O	M74HCT 573	20
O	M74HC 574	20
O	M74HCT 574	20
M	M74HC 590	16
M	M74HC 592	16
M	M74HC 593	20
M	M74HC 595	16
M	M74HC 597	16
O	M74HC 620	20
O	M74HC 623	20
O	M74HC 640	20
O	M74HCT 640	20
O	M74HC 643	20
O	M74HCT 643	20

F	TYPE	PIN
O	M74HC 646	24
O	M74HCT 646	24
O	M74HC 648	24
O	M74HCT 648	24
O	M74HC 651	24
O	M74HCT 651	24
O	M74HC 652	24
O	M74HCT 652	24
M	M74HC 670	16
M	M74HC 688	20
M	M74HCT 688	20
M	M74HC 690	20
M	M74HC 691	20
M	M74HC 692	20
M	M74HC 693	20
M	M74HC 696	20
M	M74HC 697	20
M	M74HC 698	20
M	M74HC 699	20
G	M74HC 4002	14
S	M74HC 4016	14
M	M74HC 4017	16
M	M74HC 4020	16
M	M74HC 4022	16
M	M74HC 4024	14
M	M74HC 4028	16
M	M74HC 4040	16
S	M74HC 4049	16
S	M74HC 4050	16
M	M74HC 4051	16
M	M74HC 4052	16
M	M74HC 4053	16
M	M74HCT 4053	16
M	M74HC 4060	16
S	M74HC 4066	14
G	M74HC 4072	14
G	M74HC 4075	14
G	M74HC 4078	14
M	M74HC 4094	16
M	M74HC 40102	16
M	M74HC 40103	16
M	M74HC 4316	16
M	M74HC 4351	20
M	M74HC 4352	20
M	M74HC 4353	20
M	M74HC 4511	16
M	M74HC 4514	24
M	M74HC 4515	24
M	M74HC 4518	16
M	M74HC 4520	16
M	M74HC 4538	16
M	M74HC 4543	16
M	M74HC 4851	16
M	M74HC 4852	16
S	M74HCT 7007	14
M	M74HCT 7259	16
S	M74HC 7266	14
M	M74HC 7292	16
M	M74HC 7294	16

F: Function; G: Gate; S: Small Scale Integration; M: Medium Scale Integration; O: Octal.

5V



AC, ACT ADVANCED CMOS LOGIC

SYMBOL	PARAMETER	VALUE	UNIT
Vcc	Supply Voltage: AC series	2 to 6	V
	ACT series	4.5 to 5.5	V
Vi	Input Voltage	0 to Vcc	V
Top	Operating Temperature	-55 to 125	°C
Io	Output Current @ Vcc=5V	24 (min)	mA
tpd	Delay Time @ Vcc=5V	4 (typ)*	ns

* Referred to 74AC244

F	TYPE	PIN
G	74AC 00	14
G	74ACT 00	14
G	74AC 02	14
G	74ACT 02	14
G	74AC 04	14
G	74ACT 04	14
G	74AC 08	14
G	74ACT 08	14
G	74AC 10	14
G	74ACT 10	14
G	74AC 11	14
G	74ACT 11	14
S	74AC 14	14
S	74ACT 14	14
G	74AC 20	14
G	74ACT 20	14
G	74AC 32	14
G	74ACT 32	14

F	TYPE	PIN
S	74AC 74	14
S	74ACT 74	14
S	74AC 86	14
S	74ACT 86	14
S	74AC 125	14
S	74ACT 125	14
M	74AC 138	16
M	74ACT 138	16
M	74AC 157	16
M	74ACT 157	16
M	74AC 158	16
M	74ACT 158	16
M	74AC 161	16
M	74ACT 161	16
M	74AC 163	16
M	74ACT 163	16
M	74AC 174	16
M	74ACT 174	16

PACKAGE	ORDER CODE	
	AC	ACT
DIP (tube)	74ACxxxB	74ACTxxxB
SO (tube)	74ACxxxM	74ACTxxxM
SO (T&R)	74ACxxxMTR	74ACTxxxMTR
TSSOP (T&R)	74ACxxxTTR	74ACTxxxTTR

F	TYPE	PIN
O	74AC 240	20
O	74ACT 240	20
O	74AC 244	20
O	74ACT 244	20
O	74AC 245	20
O	74ACT 245	20
M	74AC 257	16
M	74ACT 257	16
O	74AC 273	20
O	74ACT 273	20
M	74AC 280	14
M	74ACT 280	14
M	74AC 299	20
M	74ACT 299	20
O	74AC 373	20
O	74ACT 373	20
O	74AC 374	20
O	74ACT 374	20

F	TYPE	PIN
O	74AC 573	20
O	74ACT 573	20
O	74AC 541	20
O	74ACT 541	20
O	74AC 574	20
O	74ACT 574	20
16BIT	74AC 16244	48
16BIT	74ACT 16244	48
16BIT	74AC 16245	48
16BIT	74ACT 16245	48
16BIT	74AC 16373	48
16BIT	74ACT 16373	48
16BIT	74AC 16374	48
16BIT	74ACT 16374	48
16BIT	74AC 16541	48
16BIT	74ACT 16541	48

F: Function; G: Gate; S: Small Scale Integration; M: Medium Scale Integration; O: Octal.

5V
3.3V

VHC, VHCT LOW NOISE, VERY HIGH SPEED CMOS

SYMBOL	PARAMETER	VALUE	UNIT
Vcc	Supply Voltage: VHC series	2 to 5.5	V
	VHCT series	4.5 to 5.5	V
Vi	Input Voltage	0 to 5.5	V
Top	Operating Temperature	-55 to 125	°C
Io	Output Current @ Vcc=5V	8	mA
tpd	Delay Time @ Vcc=5V, CL=15pF	4 (typ)*	ns

* Referred to 74VHC244

F	TYPE	PIN
G	74VHC 00	14
G	74VHCT 00A	14
G	74VHC 02	14
G	74VHCT 02A	14
G	74VHC 03	14
G	74VHCT 03A	14
G	74VHC 04	14
G	74VHCT 04A	14
G	74VHC U04	14
G	74VHC 05	14
G	74VHCT 05A	14
G	74VHC 08	14
G	74VHCT 08A	14
S	74VHC 14	14
S	74VHCT 14A	14
G	74VHC 20	14
G	74VHCT 20A	14
G	74VHC 27	14

F	TYPE	PIN
G	74VHCT 27A	14
G	74VHC 32	14
G	74VHCT 32A	14
S	74VHC 74	14
S	74VHCT 74A	14
S	74VHC 86	14
S	74VHCT 86A	14
S	74VHC 125	14
S	74VHCT 125A	14
S	74VHC 126	14
S	74VHCT 126A	14
S	74VHC 132	14
S	74VHCT 132A	14
M	74VHC 138	16
M	74VHCT 138A	16
M	74VHC 139	16
M	74VHCT 139A	16
M	74VHC 157	16

PACKAGE	ORDER CODE	
	VHC	VHCT
SO (tube)	74VHCxxxM	74VHCTxxxAM
SO (T&R)	74VHCxxxMTR	74VHCTxxxAMTR
TSSOP (T&R)	74VHCxxxTTR	74VHCTxxxATTR

F	TYPE	PIN
M	74VHCT 157A	16
16BIT	74VHC 16240	48
16BIT	74VHCT 16240	48
16BIT	74VHC 16244	48
16BIT	74VHCT 16244	48
16BIT	74VHC 16245	48
16BIT	74VHCT 16245	48
16BIT	74VHC 16373	48
16BIT	74VHCT 16373	48
16BIT	74VHC 16374	48
16BIT	74VHCT 16374	48
M	74VHC 174	16
M	74VHCT 174A	16
M	74VHC 238	16
M	74VHCT 238A	16
O	74VHC 240	20
O	74VHCT 240A	20
O	74VHC 244	20

F	TYPE	PIN
O	74VHCT 244A	20
O	74VHC 245	20
O	74VHCT 245A	20
M	74VHC 257	16
M	74VHCT 257A	16
O	74VHC 273	20
O	74VHCT 273A	20
O	74VHC 373	20
O	74VHCT 373A	20
O	74VHC 374	20
O	74VHCT 374A	20
O	74VHC 541	20
O	74VHCT 541A	20
O	74VHC 573	20
O	74VHCT 573A	20
O	74VHC 574	20
O	74VHCT 574A	20
O	74VHC 594	20

F: Function; G: Gate; S: Small Scale Integration; M: Medium Scale Integration; O: Octal.

=5V



CMOS 4000B

SYMBOL	PARAMETER	VALUE	UNIT
V _{dd}	Supply Voltage	3 to 18	V
V _i	Input Voltage	0 to V _{dd}	V
Top	Operating Temperature	-55 to 125	°C
I _o	Output Current @ V _{dd} = 15V	7	mA
tpd	Delay Time @ V _{dd} = 15V	45 (typ)*	ns

PACKAGE	ORDER CODE
DIP (tube)	HCF4xxxBEY
SO (tube)	HCF4xxxBM1
SO (T&R)	HCF4xxxM013TR

* Referred to HCF4011B

F	TYPE	PIN
G	HCF 4000B	14
G	HCF 4001B	14
G	HCF 4002B	14
M	HCF 4006B	14
G	HCF 4007UB	14
M	HCF 4008B	16
S	HCF 4009UB	16
S	HCF 4010B	16
G	HCF 4011B	14
G	HCF 4012B	14
S	HCF 4013B	14
M	HCF 4014B	16
M	HCF 4015B	16
S	HCF 4016B	14
M	HCF 4017B	16
M	HCF 4018B	16
S	HCF 4019B	16
M	HCF 4020B	16
M	HCF 4021B	16
M	HCF 4022B	16
G	HCF 4023B	14
M	HCF 4024B	14
G	HCF 4025B	14
M	HCF 4026B	16
S	HCF 4027B	16
M	HCF 4028B	16
M	HCF 4029B	16
S	HCF 4030B	14
M	HCF 4031B ^Δ	16
M	HCF 4032B	16
M	HCF 4033B	16
M	HCF 4034B	24
M	HCF 4035B	16
M	HCF 4038B	16
M	HCF 4040B	16
M	HCF 4041UB	14
M	HCF 4042B	16
M	HCF 4043B	16
M	HCF 4044B	16
M	HCF 4045B	16
M	HCF 4046B	16
M	HCF 4047B	14
M	HCF 4048B	16
S	HCF 4049UB	16
S	HCF 4050B	16
M	HCF 4051B	16
M	HCF 4052B	16
M	HCF 4053B	16
M	HCF 4054B	16
M	HCF 4055B	16
M	HCF 4056B	16
M	HCF 4060B	16
M	HCF 4063B	16
S	HCF 4066B	14
M	HCF 4067B*	24
G	HCF 4068B	14

F	TYPE	PIN
G	HCF 4069UB	14
G	HCF 4070B	14
G	HCF 4071B	14
G	HCF 4072B	14
G	HCF 4073B	14
G	HCF 4075B	14
M	HCF 4076B	16
G	HCF 4077B	14
G	HCF 4078B	14
G	HCF 4081B	14
G	HCF 4082B	14
S	HCF 4085B	14
S	HCF 4086B	14
M	HCF 4089B	16
S	HCF 4093B	14
M	HCF 4094B	16
M	HCF 4095B	14
M	HCF 4096B	14
M	HCF 4097B*	24
M	HCF 4098B	16
M	HCF 4099B	16
M	HCF 4502B	16
M	HCF 4503B	16
M	HCF 4508B*	24
M	HCF 4510B ^Δ	16
M	HCF 4511B	16
M	HCF 4512B	16
M	HCF 4514B*	24
M	HCF 4515B*	24
M	HCF 4516B	16
M	HCF 4517B ^Δ	16
M	HCF 4518B	16
M	HCF 4520B	16
M	HCF 4521B	16
M	HCF 4527B ^Δ	16
M	HCF 4532B	16
M	HCF 4536B ^Δ	16
M	HCF 4538B	16
M	HCF 4541B	14
M	HCF 4543B	16
M	HCF 4555B	16
M	HCF 4556B	16
M	HCF 4585B	16
M	HCF 4724B ^Δ	16
M	HCF 40100B	16
M	HCF 40101B	14
M	HCF 40102B	16
M	HCF 40103B	16
M	HCF 40104B ^Δ	16
M	HCF 40105B ^Δ	16
M	HCF 40106B	14
M	HCF 40107B	8
M	HCF 40108B*	24
M	HCF 40109B	16
M	HCF 40110B ^Δ	16
M	HCF 40147B	16

F	TYPE	PIN
M	HCF 40160B	16
M	HCF 40161B	16
M	HCF 40162B	16
M	HCF 40163B	16
M	HCF 40174B	16
M	HCF 40181B*	24
M	HCF 40182B	16
M	HCF 40192B	16
M	HCF 40193B	16
M	HCF 40194B ^Δ	16
M	HCF 40208B*	24
M	HCF 40257B	16
M	M 22100B ^Δ	16

F: Function;
 G: Gate;
 S: Small Scale Integration;
 M: Medium Scale Integration;
 O: Octal
 *Only in SO package
^Δ Only in DIP package

5V



HCMOS SINGLE SWITCH

SYMBOL	PARAMETER	VALUE	UNIT
Vcc	Supply Voltage: V1G series	2 to 12	V
Vi	Input Voltage	0 to Vcc	V
Top	Operating Temperature	-55 to 125	°C
Ron	On resistance: @ Vcc=12V	45 (typ)	Ω
tpz	Enable Time @Vcc= 12V	6 (typ)	ns

PACKAGE	ORDER CODE
SOT323-5 (T&R)	74H1G66STR

F	TYPE	PIN
Switch	74H1G	66
		5

F: Function

5V
3.3V

VHC, VHCT SINGLE AND DUAL SWITCHES

F	TYPE	PIN
SPST	74V1G	66
SPST	74V1T	66
SPST	74V1G	384
SPST	74V1T	384
2xSPST	74V2G	384
2xSPST	74V2T	384
2xSPST	74V2G	66
2xSPST	74V2T	66
SPDT	STG	719
SPDT	STG	3157
4xSPDT	STG	3699*
		16

SYMBOL	PARAMETER	VALUE	UNIT
Vcc	Supply Voltage: VHC series	2 to 5.5	V
	VHCT series	4.5 to 5.5	V
	STG* series	1.65 to 5.5	V
Vi	Input Voltage	0 to Vcc	V
Top	Operating Temperature	-55 to 125	°C
Ron	On Resistance @ Vcc=5V	0.5 to 10	Ω
tpd	Delay Time @Vcc= 5V	2.5 (typ)	ns

*STG3699 Vcc=1.65 to 3.6V

PACKAGE	ORDER CODE		
	V1G/V2G	V1T/V2T	STG
SOT23-5/6/8L (T&R)	74VxGxxxSTR	74VxTxxxSTR	STG719STR
SOT323-5/6L (T&R)	74VxGxxxCTR	74VxTxxxCTR	STG3157CTR
QFN16 (T&R)	-	-	STG3699QTR

* Coming soon

F: Function

SPST: Single Pole Single Throw

SPDT: Single Pole Double Throw

3.3V



LX1G SINGLE GATE LCX

F	TYPE	PIN
G	74LX1G	00
G	74LX1G	02
G	74LX1G	03
G	74LX1G	04
G	74LX1G	05
G	74LX1G	07
G	74LX1G	08
G	74LX1G	14
G	74LX1G	32
G	74LX1G	70*
G	74LX1G	86
G	74LX1G	125
G	74LX1G	126
G	74LX1G	132
G	74LX1G	U04

SYMBOL	PARAMETER	VALUE	UNIT
Vcc	Supply Voltage	1.65 to 5.5	V
Vi	Input Voltage	0 to 5.5	V
Top	Operating Temperature	-55 to 125	°C
Io	Output Current	24	mA
tpd	Delay Time @Vcc= 3.3V	5.2 (max)*	ns

* Referred to 74LX1G04

PACKAGE	ORDER CODE
SOT23-5L (T&R)	74LX1GxxxSTR
SOT323-5L (T&R)	74LX1GxxxCTR

*Single buffer or down single supply level translator

3V
5V

3V-5V BUS SWITCH

PIN	TYPE	PACKAGE	DESCRIPTION
48	B5S 162861	TSSOP/BQSOP*	5V 20bit with 25Ω series resistor
48	B5S 16861	TSSOP/BQSOP*	5V 20bit with 5Ω series resistor
48	B5S 16862	TSSOP/BQSOP*	5V 20bit with 4 enable, 5Ω series resistor
48	B5S 162862	TSSOP/BQSOP*	5V 20bit with 4 enable, 25Ω series resistor
80	B5S 34X245*	BQSOP*	5V 32bit with 5Ω series resistor
80	B5S 34X2245*	BQSOP*	5V 32bit with 25Ω series resistor
24	B3SVH 861*	TSSOP	3V 10bit, high bandwidth 5V Rail-to-rail signal
24	B3SVH 245*	TSSOP	3V 8 bit, high bandwidth 5V Rail-to-rail signal
16	B3S 3253*	SO/TSSOP	3V dual 4:1 MUX / DEMUX
16	B3S 3257*	SO/TSSOP	3V quad 2:1 MUX / DEMUX
14	B3SH 3125U*	SO/TSSOP	3V 4bit, 4 enables, high bandwidth undershoot protection
14	B3SH 3126U*	SO/TSSOP	3V 4bit, 4 enables, high bandwidth undershoot protection

* Under development

1.65V
5.5V

LVX/VCX LOW VOLTAGE LEVEL SHIFTER, DUAL SUPPLY

SYMBOL	PARAMETER	VALUE	UNIT
VccA	Supply Voltage	2.7 to 3.6	V
VccB	Supply Voltage	4.5 to 5.5	V
V _i	Input Voltage	0 to VccA/VccB	V
T _{op}	Operating Temperature	-55 to 125	°C
I _o	Output Current	24	mA
tpd	Delay Time @Vcc = 3.3V	5.6 (typ)*	ns

* Referred to 74LVX3245

PACKAGE	ORDER CODE
SO (tube)	74LVXxxxM
SO (T&R)	74LVXxxxMTR
TSSOP (T&R)	74LVXxxxTTR
TFBGA54 (T&R)	74VCX16xxxLBR
TSSOP (T&R)	VCX16xxxTTR

F	TYPE	PIN
O	74LVX 3245	24
O	74LVX 4245	24
O	74LVX C3245	24
O	74LVX C4245	24

F	TYPE ^Δ	PIN
16	74VCX16 3245	54/48
16	74VCX16 4245	54/48
16	74VCX16 32245	54/48

Note: 54 pin =TFBGA, 48 pin =TSSOP

^Δ VccA 1.65V to 2.7V

VccB 2.3V to 3.6V

5V
3.3V



V1G, V1T SINGLE GATES VHC, VHCT

SYMBOL	PARAMETER	VALUE	UNIT
Vcc	Supply Voltage: V1G series	2 to 5.5	V
	V1T series	4.5 to 5.5	V
Vi	Input Voltage	0 to 5.5	V
Top	Operating Temperature	-55 to 125	°C
Io	Output Current: @ Vcc=5V	8	mA
tpd	Delay Time @ Vcc=5V CL=15pF	4(typ)	ns

F	TYPE	PIN
G	74V1G 00	5
G	74V1T 00	5
G	74V1G 02	5
G	74V1T 02	5
G	74V1G 03	5
G	74V1T 03	5
G	74V1G 04	5
G	74V1T 04	5
G	74V1G U04	5
G	74V1G 05	5
G	74V1T 05	5
G	74V1G 07	5
G	74V1T 07	5
G	74V1G 08	5
G	74V1T 08	5
G	74V1G 14	5
G	74V1T 14	5

PACKAGE	ORDER CODE	
	V1G	V1T
SOT23-5/6/8L (T&R)	74V1GxxxSTR	74V1TxxxSTR
SOT323-5L (T&R)	74V1GxxxCTR	74V1TxxxCTR

F	TYPE	PIN
G	74V1G 32	5
G	74V1T 32	5
G	74V1G 70	5
G	74V1T 70	5
G	74V1G 77	5
G	74V1T 77	5
G	74V1G 79	5
G	74V1T 79	5
G	74V1G 80	5
G	74V1T 80	5
G	74V1G 86	5
G	74V1T 86	5
G	74V1G 125	5
G	74V1T 125	5
G	74V1G 126	5
G	74V1T 126	5

F: Function; G: Gate

5V
3.3V



V2G, V2T DUAL GATES VHC, VHCT

SYMBOL	PARAMETER	VALUE	UNIT
Vcc	Supply Voltage: V2G series	2 to 5.5	V
	V2T series	4.5 to 5.5	V
Vi	Input Voltage	0 to 5.5	V
Top	Operating Temperature	-55 to 125	°C
Io	Output Current: @ Vcc=5V	8	mA
tpd	Delay Time @ Vcc=5V CL=15pF	4(typ)	ns

F	TYPE	PIN
G	74V2G 00	8
G	74V2T 00	8
G	74V2G 02	8
G	74V2T 02	8
G	74V2G 03	8
G	74V2T 03	8
G	74V2G 04	8
G	74V2T 04	8
G	74V2G U04	8
G	74V2G 05	8
G	74V2T 05	8
G	74V2G 07	8
G	74V2T 07	8
G	74V2G 08	8
G	74V2T 08	8
G	74V2G 14	8
G	74V2T 14	8

PACKAGE	ORDER CODE	
	V2G	V2T
SOT23-8L (T&R)	74V2GxxxSTR	74V2TxxxSTR

F	TYPE	PIN
G	74V2G 32	8
G	74V2T 32	8
G	74V2G 70	8
G	74V2T 70	8
G	74V2G 74	8
G	74V2T 74	8
G	74V2G 86	8
G	74V2T 86	8
G	74V2G 125	8
G	74V2T 125	8
G	74V2G 126	8
G	74V2T 126	8
G	74V2G 132	8
G	74V2T 132	8
G	74V2G 241	8
G	74V2T 241	8

F: Function; G: Gate



Automotive / Industrial: STPIC Power Logic

SYMBOL	PARAMETER	UNIT	STPIC6C595	STPIC6A259	STPIC44L02
$R_{DS(on)}$	Drain-Source Resistance (max @ 125°C)	Ω	9	2.5	-
V_{DS}	Switching Capability	V	33	50	-
Top	Operating Temperature	°C	-40 to 125	-40 to 125	-40 to 125
I_o	Nominal Continuous Output Sink Current	mA	100	350	2.5 mA
T_{LH}	Rise time (typ)	ns	80	125	40
T_{HL}	Fall time (typ)	ns	30	30	20
	Package		SO-16	SO-24	SSOP24

Printer, Peripherals: High Speed IEEE1284 Transceivers

SYMBOL	PARAMETER	UNIT	74ACT1284	74LVC/Z161284
Vcc	Supply Voltage	V	4.5 to 5.5	3 to 3.6
Vcc cable	Supply Voltage	V	-	3 to 5.5
V_i	Input Voltage	V	0 to Vcc	0 to Vcc
Top	Operating Temperature	°C	-40 to 85	-40 to 85
I_o	Output Current	mA	14 @ Vcc=4.5V	14/84 @ Vcc=3V
Tpd (max)	Propagation Delay Time	ns	6.5 @ Vcc=4.5V	8.5ns @ Vcc=3V
	Package		SO/TSSOP20	TSSOP48

Set-Top-Box: 32-bit Latch/Buffer/Transceiver

SYMBOL	PARAMETER	UNIT	74ACT32701
Vcc	Supply Voltage	V	4.5 to 5.5
V_i	Input Voltage	V	0 to Vcc
Top	Operating Temperature	°C	-40 to 85
I_o	Output Current	mA	24 @ 5V
Tpd (typ)	Propagation Delay Time	ns	4 @ 5V
	Package		LFPGA96

Telecom Relay Driver - Bus Transceiver

SYMBOL	PARAMETER	UNIT	74ACT8244	74GTL1655
Vcc	Supply Voltage	V	4.75 to 5.25	3 to 3.6
V_i	Input Voltage	V	0 to Vcc	0 to 3.6
Top	Operating Temperature	°C	-30 to 80	-40 to 85
I_o	Output Current	mA	50/70 @ Vcc=4.75V	24/100 @ Vcc=3V
Tpd (max)	Delay Time	ns	11 @ Vcc=4.75	6.2 @ Vcc=3V
	Package		TSSOP20	TSSOP64

7 E1 Channel Switch Arrays

SYMBOL	PARAMETER	UNIT	STM7E1A
VPOS	Positive Supply Voltage	V	+3.3
VNEG	Negative Supply Voltage	V	-3.3
V_i	Input Voltage	V	VNEG to VPOS
Top	Operating Temperature	°C	-25 to 85
Ron (max)	On Resistance	Ω	2
	Package		TQFP64

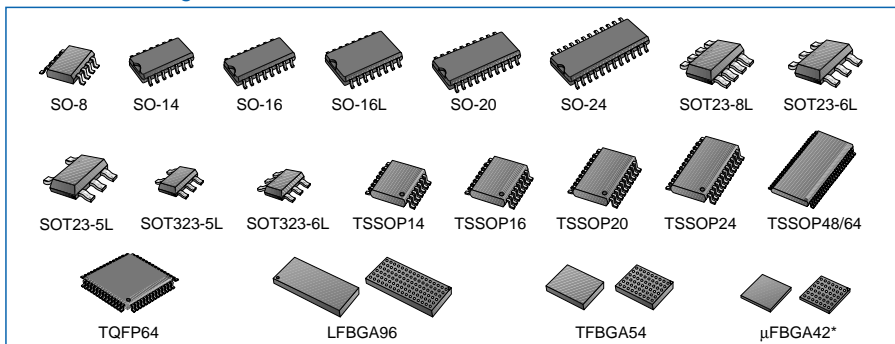
PACKAGE	ORDER CODE
SO (tube)	xxxM
SO (T&R)	xxxMTR
TSSOP (T&R)	xxxTTR
LFPGA	xxxLB
TQFP	xxxBF

xxx: device name (example: STM7E1A)



PACKAGE RANGE

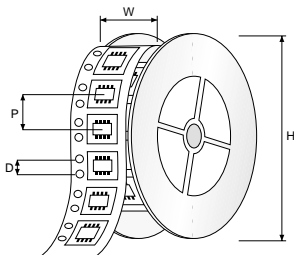
Surface Mounting



*coming soon

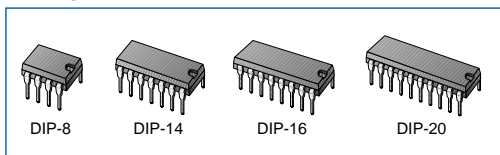
SO, TSSOP, SOT23-xL & SOT323-xL
TAPE AND REEL
(EIA RS 481 OUTLINE)

DIM	SO-8	SO-14 TSSOP14	SO-16 TSSOP16	SO-16L TSSOP24	SO-20 TSSOP48	SOT23-5/6/8L SOT323-5/6/L
H (Inch)	13"	13"	13"	13"	7"	
W (Tape Width) mm	12	16	16	24	8	
P (mm)	8	8	12	12	4	
D (mm)	4	4	4	4	4	



PACKAGE	QUANTITY
SO-8 SO-14 SO-16 TSSOP16 TSSOP20 TSSOP24	2500 pcs
SO-16L SO-20 SO-24 TSSOP48	1000 pcs
SOT23-5/6/L SOT23-5/6/8L	3000 pcs

Through-Hole



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



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Full product information at www.st.com/stdlogic

