

## LSI PIN DISCRIPTION (LSI端子機能表)

### ● YM3436DK (XG948E00) DIR2 (Digital Format Interface Receiver)

PIN NO.	NAME	I/O	FUNCTION	PIN NO.	NAME	I/O	FUNCTION
1	DAUX	I	Auxiliary input for audio data	23	/RST	I	System reset
2	HDLT	O	Asynchronous buffer operation flag	24	VDDA	I	Power supply for VCO
3	DOUT	O	Audio data output	25	CTLN	I	VCO control input N
4	VFL	O	Parity flag output	26	PCO	O	PLL phase comparison output
5	OPT	O	Fs×1 Synchronous output for DAC	27	NC	I	No connection
6	SYNC	O	Fs×1 Synchronous output for DSP	28	CTLP	I	VCO control input P
7	MCC	O	Fs×64 Bit clock output	29	VSSA	I	Ground for VCO
8	WC	O	Fs×128 Word clock output	30	/TS	I	Test pin
9	MCB	O	Fs×128 Bit clock output	31	KM2	I	Clock mode switching input 2
10	MCA	O	Fs×256 Bit clock output	32	KM0	I	Clock mode switching input 0
11	SKSY	I	Clock synchronization control input	33	FS1	O	Channel status sampling frequency display output 1
12	XI	I	Crystal oscillator connection for external clock	34	FS0	O	Channel status sampling frequency display output 0
13	XO	O	Crystal oscillator connection	35	CSM	I	Channel status output method select
14	P256	O	VCO oscillating clock connection	36	EXTW	I	External synchronous auxiliary input word clock
15	VSS	O	Ground	37	DDIN	I	EIAJ (AES/EBU) data input
16	/LOCK	O	PLL lock flag	38	LR	O	PLL word clock output
17	TST2	I	Test pin 2	39	VDD	I	Power supply
18	DIM1	I	Data input mode select 1	40	ERR	O	Data error flag output
19	DIM0	I	Data input mode select 0	41	EMP	O	Channel status emphasis control data
20	DOM1	I	Data output mode select 1	42	CD0	O	3-wire type microcomputer interface data
21	DOM0	I	Data output mode select 0	43	CCX	I	3-wire type microcomputer interface clock
22	KM1	I	Clock mode switching input 1	44	CLD	I	3-wire type microcomputer interface load

### ● YSF210 (XK280A00) 8 time Over Sampling Digital Filter

PIN NO.	NAME	I/O	FUNCTION	PIN NO.	NAME	I/O	FUNCTION																					
1	XO	O	System clock	13	OBIT1	I	Output bit selection																					
2	XI	I		14	OBIT2	I																						
3	Vss2	O		Ground				<table border="1"> <tr> <td></td> <td>22 bit</td> <td>20 bit</td> <td>18 bit</td> <td>16 bit</td> <td>AV-DSP</td> <td>MEL</td> </tr> <tr> <td>OBIT1</td> <td>H</td> <td>L</td> <td>H</td> <td>L</td> <td>H</td> <td>L</td> </tr> <tr> <td>OBIT2</td> <td>H</td> <td>H</td> <td>L</td> <td>L</td> <td>H</td> <td>L</td> </tr> </table>		22 bit	20 bit	18 bit	16 bit	AV-DSP	MEL	OBIT1	H	L	H	L	H	L	OBIT2	H	H	L	L	H
	22 bit	20 bit	18 bit	16 bit	AV-DSP	MEL																						
OBIT1	H	L	H	L	H	L																						
OBIT2	H	H	L	L	H	L																						
4	BCI	I	Bit clock	15	NC	—	No connection																					
5	SDSY	I	L/R select and input timing	16	ASY	I	Synchronous/Asynchronous system clock selection																					
6	IBIT1	I	Input bit selection	17	Vss1	O	Ground																					
7	IBIT2	I			18	BCO	O	Bit clock of DLO, DRO																				
8	IBIT3	I			19	WCO	O	Word clock of DLO, DRO																				
					20	SHL	O	Deglich signal of L/R channel																				
9	MUTE	I	Mute	21	DRO	O	Output data of R channel																					
10	NC	—	No connection	22	NC	—	No connection																					
11	SDI	I	Input data	23	DLO	O	Output data of L channel																					
12	VDD2	I	Power supply	24	VDD1	O	Power supply																					

### ● YM3437C-F (XM530A00) DIT2 (Digital Format Interface Transmitter)

PIN NO.	NAME	I/O	FUNCTION	PIN NO.	NAME	I/O	FUNCTION
1	VSS	O	Ground	9	MUTE	I	Mute
2	MCLK	I	Master clock	10	VFL	I	Validity flag
3	DM0	I	DIN/BCLK/WCLK format select 0	11	CCK/SCB	I	C,U bit clock input/C bit data input
4	DM1	I	DIN/BCLK/WCLK format select 1 DM1,DM0=0,0: DSP,LDSP(64bit, LSB first) DM1,DM0=0,1: stereo DSP(64bit, MSB first) DM1,DM0=1,0: DSP2(128bit, MSB first) DM1,DM0=1,1: BB(64bit, MSB first)	12	CIN/USB	I	C,U bit data input/U bit data input
5	/RST	I	System reset	13	CLD/AUX	I	End of C, U bit input/16,20bit/24bit select
6	WCIN	I	Word clock input	14	CTR/BLK	I	32 bit counter reset/Top of block
7	DIN	I	Digital audio serial data input	15	CSM	I	Channel status input mode select CSM=0: Asynchronous mode CSM=1: Synchronous mode
8	VDD	I	Power supply	16	DOUT	O	Digital interface formatted data output

• **AK5390-VP (XQ199A00) ADC (Analog Digital Converter)**

PIN NO.	NAME	I/O	FUNCTION	PIN NO.	NAME	I/O	FUNCTION
1	AGND		Analog ground	15	SCLK	I	Serial data clock
2	AINL	I	Left channel analog input	16	SDATA	O	Serial data output
3	ZEROL	I	Zero level output for left channel	17	FSYNC	I/O	Frame synch. clock
4	VA+	I	Positive analog power supply	18	VD+		Positive digital power supply (+)
5	VA-	I	Negative analog power supply	19	DGND		Digital ground
6	APD		Analog power down	20	CLK	I	Master clock
7	ACAL		Analog calibration	21	OCLK	O	Clock output
8	NC		No connection	22	NC		No connection
9	DACL	O	Digital calibration	23	ICLK	I	Master clock input
10	DPD	I	Digital power down	24	LGND		Logic ground
11	TST	I	Test pin	25	VL+		Positive logic power supply
12	CMODE	I	Master clock select (L: CLK=256fs, H:CLK=384fs)	26	ZEROR	I	Zero level output for right channel
13	SMODE	I	Interface clock select (L: slave mode, H: master mode)	27	AINR	I	Right channel analog input
14	L/R	I	Input channel select	28	VREF+	O	Reference voltage (+)

• **SED1335F0B (XQ595A00) LCDC (LCD Controller)**

PIN NO.	NAME	I/O	FUNCTION	PIN NO.	NAME	I/O	FUNCTION	
1	VA5	O	VRAM address bus	31	XD2	O	X driver data bus	
2	VA4	O		32	XD1	O		
3	VA3	O		33	XD0	O		
4	VA2	O		34	XECL	O		X driver enable chain clock
5	VA1	O		35	XSCL	O		X driver shift clock
6	VA0	O	VRAM write strobe	36	VSS		Ground	
7	VR/W	O		37	LP	O	Latch pulse	
8	/VCE	O	VRAM chip enable	38	WF	O	Frame signal	
9	NC		Reset	39	YDIS	O	LCD power down	
10	/RES	I		40	YD	O	Scan start pulse	
11	NC		80: Read strobe, 68: E clock 80: Write strobe, 68: Read/Write CPU 80/68 bus select	41	YSCL	O	Scan shift clock	
12	NC			42	VD7	I/O	VRAM data bus	
13	/RD	I		43	VD6	I/O		
14	/WR	I	44	VD5	I/O			
15	SEL2	I	45	VD4	I/O			
16	SEL1	I	46	VD3	I/O			
17	OSC1	I	Clock	47	VD2	I/O		
18	OSC2	O	Chip select	48	VD1	I/O		
19	/CS	I		49	VD0	I/O		
20	A0	I	Data bus signal discrimination	50	VA15	O	VRAM address bus	
21	VDD		Power supply	51	VA14	O		
22	D0	I/O	Data bus	52	VA13	O		
23	D1	I/O		53	VA12	O		
24	D2	I/O		54	VA11	O		
25	D3	I/O		55	VA10	O		
26	D4	I/O		56	VA9	O		
27	D5	I/O		57	VA8	O		
28	D6	I/O		58	VA7	O		
29	D7	I/O	59	VA6	O			
30	XD3	O	X driver data bus	60	NC			

• YSS228-F (XQ962A00) DSP3 (Digital Signal Processor)

PIN NO.	NAME	I/O	FUNCTION	PIN NO.	NAME	I/O	FUNCTION	
1	VSS		Ground	81	VSS		Ground	
2	XI	I	System master clock input(60M or 30MHz)	82	DB13	I/O	Parallel data bus	
3	XO	O	System master clock output(60M or 30MHz)	83	DB14	I/O		
4	VDD		Power supply	84	DB15	I/O		
5	/SYNCI	I	System synch. signal input	85	DB16	I/O		
6	/SYNCO	O	System synch. signal output	86	DB17	I/O		
7	CKI	I	System clock input (30MHz)	87	DB18	I/O		
8	CKO	O	System clock output (30MHz)	88	DB19	I/O		
9	CKSEL	I	System master clock select(0:60MHz,1:30MHz)	89	DB20	I/O		
10	VSS		Ground	90	DB21	I/O		
11	MCKS	I	Master clock for serial I/O(128xFs)	91	DB22	I/O		
12	/SSYNC	I	Synch. signal for serial I/O	92	DB23	I/O		
13	/IC	I	Initial clear	93	DB24	I/O		
14	/TEST	I	Test mode setting	94	DB25	I/O		
15	BTYP	I	CPU data bus 8/16 bit select(0:8,1:16)	95	DB26	I/O		
16	/IRQ	O	Interrupt request	96	DB27	I/O		
17	TRIG	I/O	Trigger signal	97	DB28	I/O		
18	VDD		Power supply	98	DB29	I/O		
19	VSS		Ground	99	DB30	I/O		
20	/CS	I	Chip select	100	DB31	I/O		
21	/DS	I	Data strobe	101	TIMO/DBOE	I/O	Timing signal/Parallel data bus control	
22	R/W	I	Read/Write select	102	VSS		Ground	
23	CA7	I	CPU address bus	103	VDD		Power supply	
24	CA6	I						
25	CA5	I						
26	CA4	I						
27	CA3	I						
28	CA2	I						
29	CA1	I	CPU address/data bus	104	DA00	I/O	External memory data bus	
30	CA0/CD15	I/O						
31	CD14	I/O	CPU data bus	105	DA01	I/O		
32	CD13	I/O						
33	CD12	I/O						
34	CD11	I/O						
35	CD10	I/O						
36	CD09	I/O						
37	CD08	I/O	DTACK signal output	106	DA02	I/O		
38	CD07	I/O						
39	CD06	I/O						
40	VSS			Ground	107	DA03	I/O	
41	VDD				Power supply	108	DA04	I/O
42	CD05	I/O		CPU data bus		109	DA05	I/O
43	CD04	I/O						
44	CD03	I/O						
45	CD02	I/O						
46	CD01	I/O						
47	CD00	I/O						
48	/DTACK	O	Serial data input	110	DA06	I/O		
49	SI0	I						
50	SI1	I						
51	SI2	I						
52	SI3	I						
53	SI4	I						
54	SI5	I						
55	SI6	I						
56	SI7	I	Ground	111	DA07	I/O		
57	VSS			Power supply	112	DA08	I/O	
58	VDD				CPU data bus	113	DA09	I/O
59	SO0	O						
60	SO1	O						
61	SO2	O						
62	SO3	O						
63	SO4	O	External memory data bus	114		DA10	I/O	
64	SO5	O						
65	SO6	O						
66	SO7	O						
67	DB00	I/O		Ground	115	DA11	I/O	
68	DB01	I/O			Power supply	116	DA12	I/O
69	DB02	I/O	CPU data bus			117	DA13	I/O
70	DB03	I/O						
71	DB04	I/O						
72	DB05	I/O						
73	DB06	I/O		External memory data bus		118	DA14	I/O
74	DB07	I/O						
75	DB08	I/O						
76	DB09	I/O						
77	DB10	I/O						
78	DB11	I/O	External memory data bus		119	DA15	I/O	
79	DB12	I/O						
80	VDD			Power supply	120	VSS		Ground
					121	VDD		Power supply
					122	DA16	I/O	External memory address bus
					123	DA17	I/O	
				124	DA18	I/O		
				125	DA19	I/O		
				126	DA20	I/O		
				127	DA21	I/O		
				128	DA22	I/O		
				129	DA23	I/O		
				130	DA24	I/O		
				131	DA25	I/O		
				132	DA26	I/O		
				133	DA27	I/O		
				134	DA28	I/O		
				135	DA29	I/O		
				136	DA30	I/O		
				137	DA31	I/O		
				138	VDD		Power supply	
				139	VSS		Ground	
				140	A00	O	External memory address bus	
				141	A01	O		
				142	A02	O		
				143	A03	O		
				144	A04	O		
				145	A05	O		
				146	A06	O		
				147	A07	O		
				148	A08	O		
				149	A09	O		
				150	A10	O		
				151	A11	O		
				152	A12	O		
				153	A13	O		
				154	A14	O		
				155	A15/RAS	O	External memory address bus/Row address strobe	
				156	A16/CAS	O	External memory address bus/Column address strobe	
				157	A17/CE	O	External memory address bus/Chip enable	
				158	/WE	O	External memory write enable	
				159	/OE	O	External memory output enable	
				160	VDD		Power supply	

● HD6437034F20 <SH7034> (XT198A00) CPU for IC003 on the MAIN Circuit board

PIN NO.	NAME	I/O	FUNCTION	PIN NO.	NAME	I/O	FUNCTION
1	PB14	I	Port B	57	/WRL	O	Write strobe-Low
2	PB15	I	Port B	58	/WRH	O	Write strobe-High
3	VSS1	-	Ground	59	/RD	O	Read strobe
4	AD0	I/O	Data bus	60	PA7	O	Port A
5	AD1	I/O		61	VSS7	-	Ground
6	AD2	I/O		62	PA8	O	Port A
7	AD3	I/O		63	PA9	O	Port A
8	AD4	I/O		64	TIOCA1	O	Input capture/output compare
9	AD5	I/O		65	TIOCB1	O	Input capture/output compare
10	AD6	I/O		66	PA12	O	Port A
11	AD7	I/O	67	TCLKB	I	Timer clock	
12	VSS2	-	Ground	68	PA14	O	Port A
13	AD8	I/O	Data bus	69	/DREQ1	I	DMA transfer request
14	AD9	I/O	Data bus	70	VCC3	-	Power supply
15	VCC1	-	Power supply	71	CK	O	System clock
16	AD10	I/O	Data bus	72	VSS8	-	Ground
17	AD11	I/O		73	EXTAL	I	System clock
18	AD12	I/O		74	XTAL	I	System clock
19	AD13	I/O		75	VCC4	-	Power supply
20	AD14	I/O		76	NMI	I	Non-maskable interrupt request
21	AD15	I/O	Ground	77	VCC(VPP)	I	Power supply
22	VSS3	-		78	/WDTOVF	O	Watch dog timer overflow
23	A0	O	Address bus	79	/RES	I	Reset
24	A1	O		90	MD0	I	Mode select
25	A2	O		81	MD1	I	
26	A3	O		82	MD2	I	
27	A4	O		83	VCC5	-	Power supply
28	A5	O		84	VCC6	-	Power supply
29	A6	O		85	AVCC	-	Power supply (Analog)
30	A7	O	Ground	86	AVREF	I	Reference voltage
31	VSS4	-		87	AN0	I	Analog input
32	A8	O		88	PC1	I	Port C
33	A9	O		89	PC2	I	
34	A10	O	90	PC3	I		
35	A11	O	Address bus	91	AVSS	-	Ground (Analog)
36	A12	O		92	PC4	I	Port C
37	A13	O		93	PC5	I	
38	A14	O		94	PC6	I	
39	A15	O		95	PC7	I	
40	VSS5	-	Ground	96	VSS9	-	Ground
41	A16	O	Address bus	97	PB0	I	Port B
42	A17	O	Address bus	98	PB1	O	Port B
43	VCC2	-	Power supply	99	VCC7	-	Power supply
44	A18	O	Address bus	100	TIOCA3	I	Input capture/output compare
45	A19	O		101	PB3	O	Port B
46	A20	O		102	TIOCA4	O	Input capture/output compare
47	A21	O		103	PB5	O	Port B
48	/CS0	O	Chip select	104	TCLKC	I	Timer clock
49	/CS1	O		105	TCLKD	I	Timer clock
50	/CS2	O		106	VSS10	-	Ground
51	/CS3	O	Ground	107	RxD0	I	Receiving data 0
52	VSS6	-		108	TxD0	O	Transmitting data 0
53	TIOCA0	O	Input capture/output compare	109	RxD1	I	Receiving data 1
54	PA1	O	Port A	110	TxD1	O	Transmitting data 1
55	/CS6	O	Chip select	111	PB12	O	Port B
56	/WAIT	O	Wait	112	SCK1	I	Serial clock

● HD6437034F20 <SH7034> (XT198A00) CPU for IC205 on the SUB Circuit Board

PIN NO.	NAME	I/O	FUNCTION	PIN NO.	NAME	I/O	FUNCTION	
1	PB14	I	Port B	57	/WRL	O	Write strobe-Low	
2	PB15	I	Port B	58	PA5	O	Port A	
3	VSS1	-	Ground	59	PA6	O		
4	AD0	I/O	Data bus	60	PA7	O		
5	AD1	I/O						
6	AD2	I/O						
7	AD3	I/O						
8	AD4	I/O						
9	AD5	I/O						
10	AD6	I/O		Port A	61	VSS7	-	Ground
11	AD7	I/O	62		PA8	O		
12	VSS2	-	Ground	63	PA9	O	Port A	
13	AD8	I/O	Data bus	64	PA10	O		
14	AD9	I/O	Data bus	65	PA11	O		
15	VCC1	-	Power supply	66	TCLKA	I	Timer clock	
16	AD10	I/O	Data bus	67	TCLKB	I	Timer clock	
17	AD11	I/O						
18	AD12	I/O						
19	AD13	I/O						
20	AD14	I/O						
21	AD15	I/O						
22	VSS3	-		Ground	68	PA14	O	Port A
23	A0	O	Address bus	69	PA15	O	Port A	
24	A1	O						
25	A2	O						
26	A3	O						
27	A4	O						
28	A5	O						
29	A6	O		Power supply	70	VCC3	-	Power supply
30	A7	O	71		CK	O	System clock	
31	VSS4	-	Ground	72	VSS8	-	Ground	
32	A8	O	Address bus	73	EXTAL	I	System clock	
33	A9	O						
34	A10	O						
35	A11	O						
36	A12	O						
37	A13	O						
38	A14	O		Power supply	74	XTAL	I	System clock
39	A15	O	75		VCC4	-	Power supply	
40	VSS5	-	Ground	76	NMI	I	Non-maskable interrupt request	
41	A16	O	Address bus	77	VCC(VPP)	-	Power supply	
42	A17	O						
43	VCC2	-		Power supply	78	/WDTOVF	O	Watch dog timer overflow
44	A18	O						
45	A19	O						
46	A20	O						
47	A21	O		Reset	79	/RES	I	Reset
48	/CS0	O	80		MD0	I	Mode select	
49	/CS1	O	81	MD1	I			
50	/CS2	O	82	MD2	I			
51	/CS3	O	Chip select	83	VCC5	-	Power supply	
52	VSS6	-		Ground	84	VCC6	-	Power supply
53	PA0	I		Port A	85	AVCC	-	Power supply (Analog)
54	PA1	O						
55	PA2	O						
56	/CS7	O			86	AVREF	I	Reference voltage
					87	AN0	I	Analog input
			88		AN1	I		
			89		AN2	I		
			Ground (Analog)	90	AN3	I		
				91	AVSS	-		
				92	AN4	I	Analog input	
			93	AN5	I			
			94	AN6	I			
			Ground	95	AN7	I		
				96	VSS9	-	Ground	
				97	PB0	O	Port B	
			Port B	98	PB1	O	Port B	
				99	VCC7	-	Power supply	
				100	PB2	O	Port B	
			101	PB3	O			
			102	PB4	O			
			103	PB5	O			
			104	PB6	O			
			Ground	105	PB7	O		
				106	VSS10	-	Ground	
				107	RxD0	I	Receiving data 0	
			Port B	108	TxD0	O	Transmitting data 0	
				109	RxD1	I	Receiving data 1	
			Port B	110	TxD1	O	Transmitting data 1	
				111	PB12	O	Port B	
			Port B	112	PB13	O	Port B	

● **PCM69AP-3 (XM051A00) DAC (Digital to Analog Converter)**

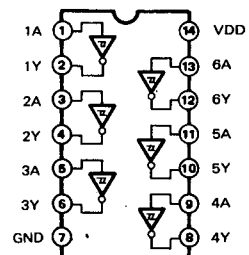
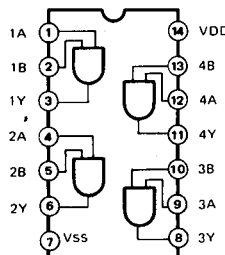
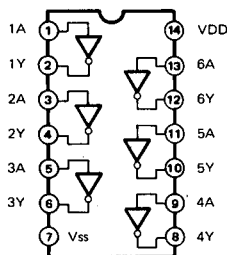
PIN NO.	NAME	I/O	FUNCTION	PIN NO.	NAME	I/O	FUNCTION
1	Vcc		Analog power supply	9	DGND	I	Digital Ground
2	COML		V-common, channel L	10	DATAR	I	Data input, channel R
3	OUTL	O	Current output, channel L	11	BCK	I	Bit clock
4	SRV		Servo filter	12	SCLK	I	System clock
5	REF		Reference filter	13	WDCK	I	Word clock
6	OUTR	O	Current output, channel R	14	DATAL	I	Data input, channel L
7	COMR		V-common, channel R	15	TP1		Test pin
8	AGND		Analog ground	16	VDD		Digital power supply

● **PCM1702P (XN136A00) DAC (Digital to Analog Converter)**

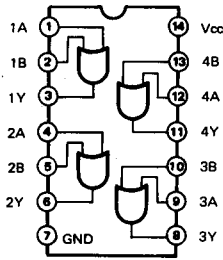
PIN NO.	NAME	I/O	FUNCTION	PIN NO.	NAME	I/O	FUNCTION
1	DATA	I	Serial data input	9	+Vcc		Analog power supply (+5V)
2	CLOCK	I	Bit clock	10	BPO DC	I/O	BPO decouple
3	+Vdd		Digital power supply (+5V)	11	I OUT	O	Current output
4	DGND	I	Digital ground	12	AGND		Analog ground
5	-Vdd		Digital power supply (-5V)	13	AGND		Analog ground
6	LE	I	Latch enable	14	SERVO DC	I/O	Servo decouple
7	NC		Reserved	15	REF DC	I/O	Ref. decouple
8	NC		Reserved	16	-Vcc		Analog power supply (-5V)

■ **IC BLOCK DIAGRAM (ICブロック図)**

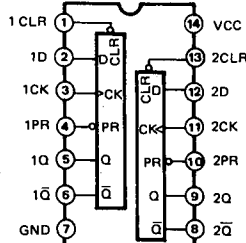
- TC74HCU04AP** (IG142200)
- SN74HC08NSR** (XD831A00) Quad 2 Input AND
- SN74HC14N** (IR001450) Hex Inverter
- HD74HC04P** (IR000410)
- 
- 
- SN74HCU04NSR** (XC723A00)
- SN74HC04NSR** (XD830A00) Hex Inverter



- **SN74HC32NSR (XD833A00)**  
Quad 2 Input OR

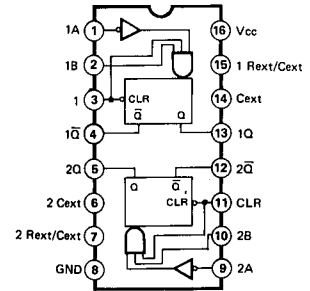


- **SN74HC74NSR (XC726A00)**  
Dual D-Type Flip-Flop

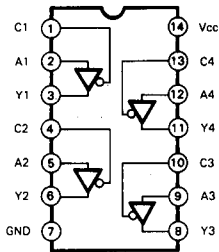


INPUTS				OUTPUTS	
PR	CLR	CLK	D	Q	Q-bar
L	H	X	X	H	L
H	L	X	X	L	H
L	L	X	X	H	H
H	H	↑	H	L	L
H	H	↓	L	L	H
H	H	L	X	Q <sub>o</sub>	Q <sub>o</sub> -

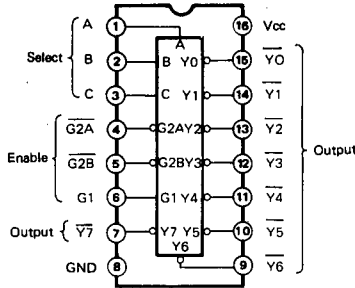
- **HD74HC123AP (IR012310)**  
Dual Retriggerable Single Shot



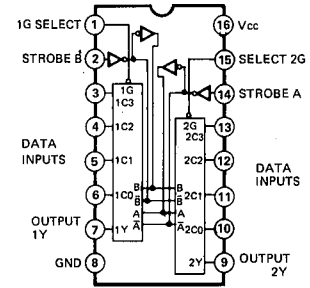
- **SN74HC125NSR (XH218A00)**  
Quad 3-State Bus Buffer



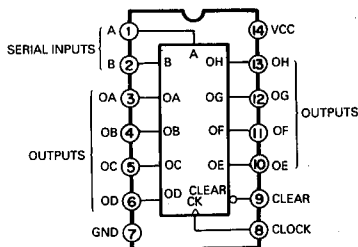
- **SN74HC138NSR (XD835A00)**  
3 to 8 Demultiplexer



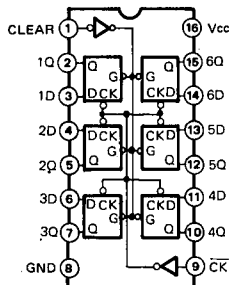
- **SN74HC153NSR4-1S (IR017450)**  
Dual 4 to 1 Data Selectors



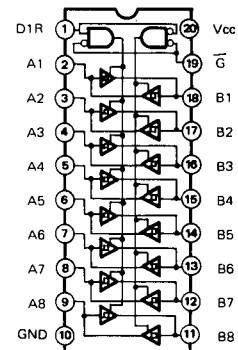
- **TC74HC164AF (XQ967A00)**  
8-Bit Shift Register



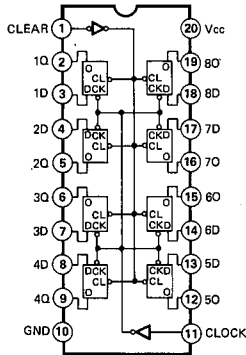
- **SN74HC174N (IR017450)**  
Hex D-Type Flip-Flop



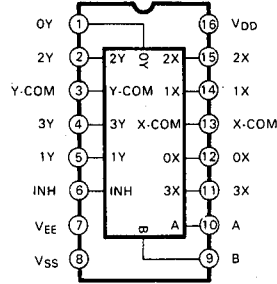
- **SN74HC245N (IR024550)**  
**SN74HC245NSR (XD838A00)**  
Octal 3-State Bus Transceiver



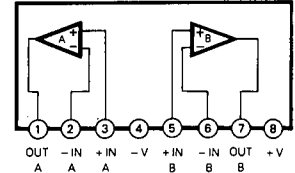
- **SN74HC273N** (IR027350)  
**SN74HC273NSR** (XH223A00)  
Octal D-Type Flip-Flop



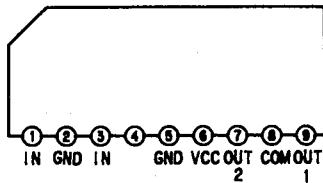
- **TC4052BP** (XA053A00)  
Differential 4-Channel  
Multiplexer/Demultiplexer



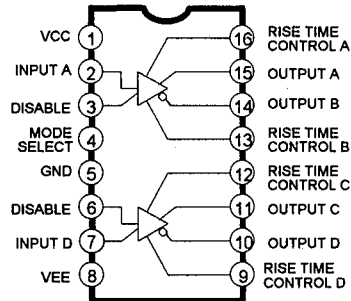
- **NJM4556AL** (XP844A00)
- **NJM2082M(T1)** (XN797A00)
- **NJM2068L-D** (XM356A00)  
Dual Operational Amplifier



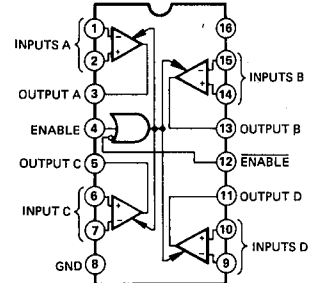
- **TA7291S** (XF557A00)  
Motor Driver



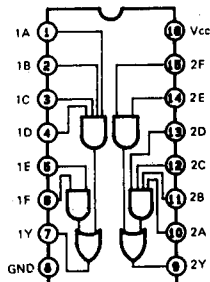
- **MC26LS30D** (XL334A00)  
Line Driver



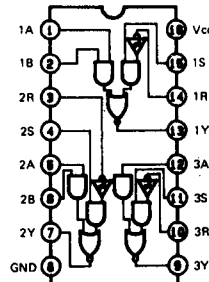
- **DS26C32ATM** (XQ544A00)  
Line Receiver



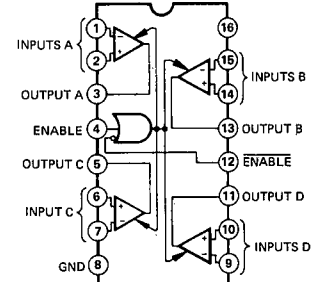
- **SN75121NS** (XN975A00)  
Dual Line Driver



- **SN75124NS** (XN976A00)  
Triple Line Receiver

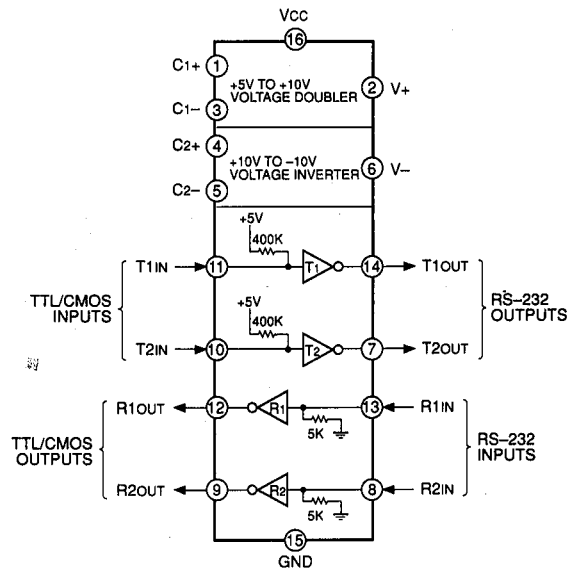


- **AM26LS31M** (XN919A00)  
Line Receiver





• **MAX202CPE (XP893A00)**  
RS-232 Transceiver



■ **CIRCUIT BOARDS (シート基板図)**

MAIN 1/2 Circuit Board .....	55
MAIN 2/2 Circuit Board .....	57
AD 1/2 Circuit Board .....	61
AD 2/2 Circuit Board .....	64
DA Circuit Board .....	67
FD Circuit Board .....	70
PN/ENC Circuit Board .....	73
SUB 1/2 Circuit Board .....	78
SUB 2/2 Circuit Board .....	79
DC Circuit Board .....	80
JK Circuit Board .....	83
AC Circuit Board .....	83