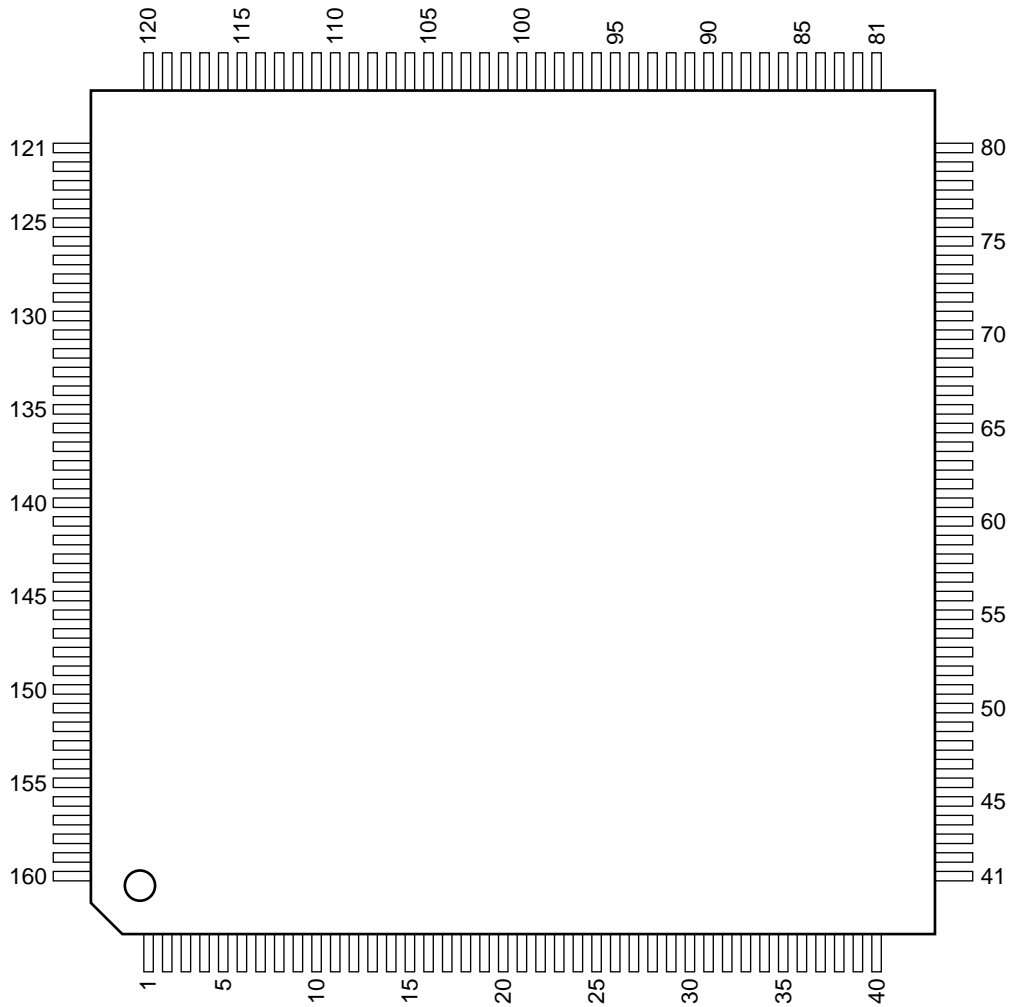


# NTSC/PAL TO RGB/YCrCb DECODER

—TOP VIEW—



PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL
1	—	Vcc2	41	—	Vcc2	81	—	Vcc2	121	—	Vcc2
2	—	Vcc2	42	—	Vcc2	82	—	Vcc2	122	—	Vcc2
3	I	YREF–	43	—	Vcc2	83	I	WR	123	—	Vcc2
4	I	Y/COMPOSITE	44	—	GND	84	I	RS0	124	—	A.GND
5	—	A.GND	45	—	Vcc1	85	I	RS1	125	I	VID0 C
6	O	VOUT Y	46	I	VTU EN	86	I	RD	126	—	A.GND
7	I	YLEVEL	47	I	PIXEL EN	87	I	RESET	127	I	VID1 C
8	—	T15	48	O	B7	88	I	TDI	128	—	A.GND
9	—	T14	49	O	B6	89	I	TMS	129	I	VID2 C
10	—	T13	50	O	B5	90	I	TCLK	130	—	GND
11	—	T12	51	O	B4	91	—	Vcc1	131	I	VID3 C
12	—	T11	52	O	B3	92	I/O	D0	132	—	Vcc2
13	—	T10	53	O	B2	93	I/O	D1	133	—	NC
14	—	T9	54	O	B1	94	I/O	D2	134	—	A.GND
15	—	T8	55	O	B0	95	I/O	D3	135	O	R/2
16	—	GND	56	—	GND	96	I/O	D4	136	—	A.GND
17	—	T7	57	—	Vcc1	97	I/O	D5	137	I	CREF+
18	—	T6	58	O	R7	98	—	GND	138	—	A.GND
19	—	T5	59	O	R6	99	I/O	D6	139	—	A.GND
20	—	T4	60	O	R5	100	I/O	D7	140	I	SYNC DET
21	—	T3	61	O	R4	101	O	TDO	141	—	Vcc2
22	—	T2	62	O	R3	102	—	Vcc1	142	—	Vcc2
23	—	T1	63	O	R2	103	—	GND	143	—	A.GND
24	—	T0	64	O	R1	104	O	CLOCKx1	144	I	YREF+
25	O	FIELD 1	65	O	R0	105	O	CLOCKx2	145	—	A.GND
26	O	FIELD 0	66	—	GND	106	I	XTAL2 IN	146	—	NC
27	O	FIELD EVEN	67	O	G7	107	I	XTAL2 OUT	147	—	A.GND
28	O	CbFLAG	68	O	G6	108	I	XTAL1 IN	148	—	NC
29	O	VALID	69	O	G5	109	I	XTAL1 OUT	149	—	Vcc2
30	—	GND	70	O	G4	110	O	AGC	150	I	VID3 Y
31	—	Vcc1	71	O	G3	111	—	GND	151	—	A.GND
32	O	ACTIVE	72	O	G2	112	—	Vcc1	152	I	VID2 Y
33	O	VACTIVE	73	O	G1	113	O	REFOUT	153	—	A.GND
34	O	VRESET	74	O	G0	114	I	CLEVEL	154	I	VID1 Y
35	O	HACTIVE	75	—	GND	115	O	VOUT C	155	—	A.GND
36	O	HRESET	76	—	Vcc1	116	—	A.GND	156	I	VID0 Y
37	O	SERROR	77	—	NC	117	I	C	157	—	A.GND
38	O	CAPTURE	78	—	Vcc2	118	I	CREF–	158	—	Vcc2
39	—	Vcc2	79	—	Vcc2	119	—	Vcc2	159	—	Vcc2
40	—	Vcc2	80	—	Vcc2	120	—	Vcc2	160	—	Vcc2

**INPUTS**

C	: ANALOG CHROMA
CLEVEL	: CHROMA LEVEL
CREF+, CREF-	: REFERENCE LADDER
PIXEL EN	: PIXEL OUTPUT ENABLE
RD	: READ CONTROL
RESET	: RESET
RS0, RS1	: ADDRESS CONTROL
SYNC DET	: SYNC STRIPPER
TCLK	: TEST CLOCK
TDI	: TEST DATA
TMS	: TEST MODE SELECT
VID0 C - VID3 C	: ANALOG VIDEO
VID0 Y - VID3 Y	: ANALOG VIDEO
VTU EN	: VIDEO TIMING ENABLE
WR	: WRITE CONTROL
XTAL1 IN, XTAL1 OUT	: CRYSTAL 1
XTAL2 IN, XTAL2 OUT	: CRYSTAL 2
Y/COMPOSITE	: ANALOG VIDEO
YLEVEL	: Y LEVEL
YREF+, YREF-	: REFERENCE LADDER

**OUTPUTS**

ACTIVE	: COMPOSITE ACTIVE
AGC	: AUTOMATIC GAIN CONTROL
B0 - B7	: DIGITIZED VIDEO DATA
CAPTURE	: CAPTURE CONTROL
CbFLAG	: Cb INDICATOR
CLOCK × 1, CLOCK × 2	: CLOCK
FIELD 0, FIELD 1, FIELD EVEN	: FIELD
G0 - G7	: DIGITIZED VIDEO DATA
HACTIONE	: HORIZONTAL BLANKING
HRESET	: HORIZONTAL TIMING
R/2	: REFERENCE LADDER
R0 - R7	: DIGITIZED VIDEO DATA
REFOUT	: REFERENCE
SERROR	: PHASE INFORMATION
TDO	: TEST DATA
VACTIVE	: VERTICAL BLANKING
VALID	: VALID PIXEL
VOUT C, VOUT Y	: ANALOG VIDEO
VRESET	: VERTICAL TIMING

**INPUTS/OUTPUTS**

D0 - D7	: DATA
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**OTHERS**

T0 - T15	: RESERVED
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