

I²C BUS AV-SW IC

Monolithic IC MM1783

Outline

This IC is a full HD compatible I²C BUS controlled audio video switch IC for LCD (middle-end to high-end), PDP, and rear-projection televisions.

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| <ul style="list-style-type: none"> · Operating supply voltage:
using two power supplies
Vcc1: 8.5V - 9.5V
Vcc2: 4.5V - 5.5V | <ul style="list-style-type: none"> · Input channels:
Composite video input: 7 channels
S Video input: 4 channels
Component input: 3 channels
Audio input: 10 channels | <ul style="list-style-type: none"> · Output channels
Video output: 3 channels
Audio input: 3 channels |
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Features

1. Full HD compatible (frequency response -3dB at 100MHz, for OUT1 only)
2. Integrates video and audio outputs into one chip
3. Enables RGB input (1600 x 1200 max. [UXGA])
4. Three type of LPF cutoff frequency can be selected.
(OUT1, OUT2 fBW [=7MHz, 13MHz], fC [=24MHz])
5. Includes a 75Ω driver for monitor output (D1 resolution)
6. Supports S1/S2-terminal detection
7. Supports D-terminal detection
8. Detailed power saving function allows reduction in power consumption of unused circuits.
9. If D4 output is used, D4 mode function allows further reduction in power consumption.
10. Complies with the CENELEC SCART standard

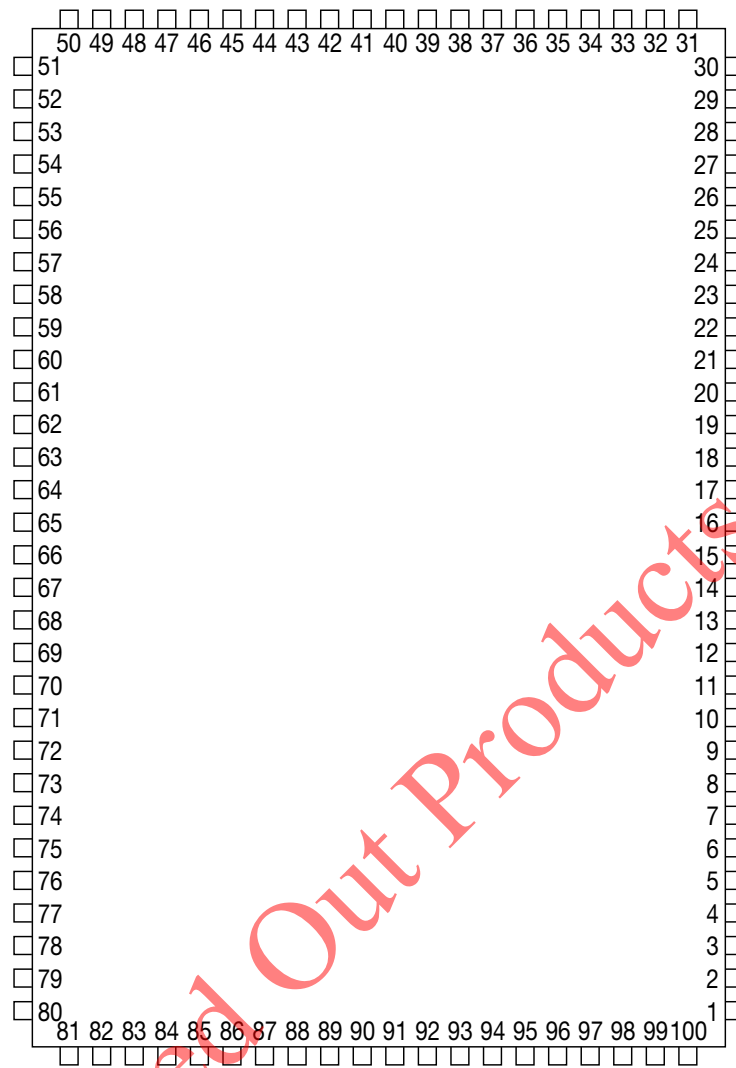
Package

QFP-100A

Applications

1. LCD TV (middle-end to high-end TV)
2. Plasma TV
3. Rear-projection TV
4. CRT TV

Pin Assignment



QFP-100A
(TOP VIEW)

1	S1-1	21	S2-4/FS4	41	R10	61	Vcc9	81	DL1-1
2	Y1	22	C4	42	L10	62	DCout	82	CY1
3	S2-1/FS1	23	O3	43	R9	63	Cout3	83	DL2-1
4	C1	24	V5	44	L9	64	GND	84	PB1
5	O1	25	GND	45	R8	65	Vout3	85	DL3-1
6	V2	26	V6	46	L8	66	Vcc5	86	PR1
7	S1-2	27	Vcc5	47	R7	67	Yout3	87	DL1-2
8	Y2	28	V7	48	L7	68	GND	88	CY2
9	S2-2/FS2	29	O4	49	R6	69	PRout2	89	DL2-2
10	C2	30	GND	50	L6	70	PBout2	90	PB2
11	BIAS	31	SCL	51	R5	71	CYout2	91	DL3-2
12	V3	32	SDA	52	L5	72	Vcc9	92	PR2
13	S1-3	33	Vcc9	53	R4	73	PRout1	93	DL1-3
14	Y3	34	Rout3	54	L4	74	PBout1	94	CY3
15	S2-3/FS3	35	Lout3	55	R3	75	CYout1	95	DL2-3
16	C3	36	Rout2	56	L3	76	ADR	96	PB3
17	O2	37	Lout2	57	R2	77	SW3	97	DL3-3
18	V4	38	Rout1	58	L2	78	SW2	98	PR3
19	S1-4	39	Lout1	59	R1	79	SW1	99	Vcc5
20	Y4	40	GND	60	L1	80	GND	100	V1

*: Vcc9=9V, Vcc5=5V

