

9001 converter board pin assignment

Converter Board Pin connection					
Converter BD pin	8414 Description	Connect to 9001 pin	9001 pin Description	DIR9001 pin	DIR9001 pin Des
1	C	-		1	AUDIO
2	CD/F1	-		2	FSOUT0
3	CC/F0	17	EMPH	3	FSOUT1
4	CB/E2	-		4	SCKO
5	CA/E1	8	XTI	5	VDD
6	CD/E0	7	XTO	6	DGND
7	VD+	-		7	XTO
8	DGND	-		8	XTI
9	RXP	-		9	CLKST
10	RXN	-		10	LRCKO
11	FSYNC	10	LRCKO	11	BCKO
12	SCK	11	BCKO	12	DOUT
13	CS12	-		13	PSCK0
14	U	-		14	PSCK1
15	CBL	-		15	COUT
16	FCKSEL	-		16	UOUT
17	M3	-		17	EMPH
18	M2	-		18	FRAME
19	MCK	4	SCKO	19	RSV
20	FILT	-		20	RXIV
21	AGND	23	AGND	21	RST
22	VA+	-		22	FILT
23	M0	-		23	AGND
24	M1	-		24	VCC
25	ERF	27	ERROR	25	FMT0
26	SDATA	12	DOUT	26	FMT1
27	CE/F2	-		27	ERRPR
28	VERF	-		28	CKSEL

Example: SM5842/SM5847

J1 open
J2 open
J3 short
J4 open
J5 open or short

TDA1541

J1 short
J2 short
J3 short
J4 open
J5 open or short

JUMPER SELECT

	9001 PIN	STATUS	MODE
J5	27 & 28	OPEN	PLL MODE
J5	27 & 28	SHORT	AUTO

	9001 PIN	STATUS	SETTING
J1	FMT0	SHORT	H
J2	FMT1	OPEN	L

Table 7. Serial Audio Data Output Format Set by FMT[1:0]

FMT[1:0] SETTINGS		DOUT SERIAL AUDIO DATA OUTPUT FORMAT
FMT1	FMT0	
L	L	18-bit, MSB-first, right-justified
L	H	24-bit, MSB-first, right-justified
H	L	24-bit MSB-first, left-justified
H	H	24-bit, MSB-first, I ² S

	9001 PIN	STATUS	SETTING
J3	PSCK0	SHORT	H
J4	PSCK1	OPEN	L

Table 3. SCKO, BCKO, and LRCKO Frequencies Set by PSCK[1:0]

PSCK[1:0] SETTING		OUTPUT CLOCK FROM PLL SOURCE		
PSCK1	PSCK0	SCKO	BCKO	LRCKO
L	L	128 f _S	64 f _S	f _S
L	H	256 f _S	64 f _S	f _S
H	L	384 f _S	64 f _S	f _S
H	H	512 f _S	64 f _S	f _S