

**Bill of Materials for the ADFB Card (8 Layers) - 32 T System - RRI, Bangalore 10 Cards**

Comment	Description	Designator	Qty/Card	Footprint	Manufacturer P/N	Farnell P/N	SMD Solder Joints /Chip	PTH Solder Joints /Chip	Total SMD Joints	Total PTH Joints	Qty for 10 Cards	Stock
ADC	ADC	U100a, U100b, U100c, U100d	4	LQFP144	AT84AD001BCTD		144		576	0	40	31
FPGA	FPGA	U101A, U101B, U101C, U101D	4	<b>BGA-F668</b>	XCSX35-12	<b>VIRTEX4</b>			0	0	40	40
100n	Capacitor	C1, C34, C35, C36, C37	5	603	0603YC104KAZ2A	756-9556	2		10	0	50	80+
220n	Capacitor	C3	1	603	B37931K224K60	880-5644	2		2	0	10	40+
220u	Capacitor	C7, C8, C9, C10, C17, C19, C21, C24, C25, C26, C100A, C100B, C100C, C100D, C106A, C106B, C106C, C106D, C114A, C114B, C114C, C114D, C132A, C132B, C132C, C132D, C135A, C135B, C135C, C135D, C144A, C144B, C144C, C144D	34	CAP_D	TAJC227K004R	196-990	2		68	0	340	400
10u	Capacitor	C11, C16, C18, C22, C38, C39, C102A, C102B, C102C, C102D, C107A, C107B, C107C, C107D, C116A, C116B, C116C, C116D, C147A, C147B, C147C, C147D	22	1206C	GRM31CR70J106KA01L	952-7729	2		44	0	220	300
470u,6.3V	Capacitor	C12, C13, C14, C15	4	CAP_D	TPSD477K006R0100	1135102	2		8	0	40	100
150u,6.3V	Capacitor	C20, C23, C27	3	CAP_D	B45294R1157M409	3018507	2		6	0	30	100
1u	Capacitor	C28, C29,	2	603		922-7776	2		4	0	20	100
1n	Capacitor	C30, C33	2	603		317-202	2		4	0	20	100
100p	Capacitor	C32	1	603		499-122	2		2	0	10	100
100p	Capacitor	C103A, C103B, C103C, C103D, C104A, C104B, C104C, C104D, C110A, C110B, C110C, C110D, C111A, C111B, C111C, C111D, C117A, C117B, C117C, C117D, C118A, C118B, C118C, C118D, C119A, C119B, C119C, C119D, C120A, C120B, C120C, C120D, C121A, C121B, C121C, C121D, C122A, C122B, C122C, C122D, C124A, C124B, C124C, C124D, C126A, C126B, C126C, C126D, C128A, C128B, C128C, C128D, C130A, C130B, C130C, C130D, C138A, C138B, C138C, C138D, C141A, C141B, C141C, C141D	64	402		301-9329	2		128	0	640	800
220p	Capacitor	C112A, C112B, C112C, C112D, C113A, C113B, C113C, C113D, C140A, C140B, C140C, C140D, C143A, C143B, C143C, C143D	16	402		301-9240	2		32	0	160	200

150p	Capacitor	C125A, C125B, C125C, C125D, C127A, C127B, C127C, C127D, C129A, C129B, C129C, C129D, C131A, C131B, C131C, C131D, C139A, C139B, C139C, C139D, C142A, C142B, C142C, C142D	24	402		301-9238	2	48	0	240	300
SDIODE	Diode	D1	1	SOT-23	ZHCS1000	952-6773	2	2	0	10	25
FBLM5	Fuse	F1, F2	2	FBML	3216FF5-R, 3216FF5-R	1123262	2	4	0	20	90+
FBLM1	Fuse	F3	1	FBML	3216FF1-R	1123254	2	2	0	10	90+
FBLM2.5	Fuse	F4	1	FBML	3216FF2.5-R	1123258	2	2	0	10	90+
FBLM4	Fuse	F5	1	FBML	3216FF4-R	1123260	2	2	0	10	90+
FBLM10	Fuse	F6	1	FBML	0451010.MRL	9922202	2	2	0	10	90+
FBLM2	Fuse	F7, F8, F9	3	FBML	3216FF2-R	1123256	2	6	0	30	90+
RGE900	Fuse	Fuse1	1	rge500	RUEF900	609018	2	2	0	10	20
HEADER 7X2	Connector	J7	1					14	0	14	10 10
HEADER 7X2	Connector	J8	1					14	0	14	10 10
Test Points	Connector	J104A, J104B, J104C, J104D	4	SIP10	M22F2011005	671-976		10	0	40	40 50
HEADER 5X2	Connector	J9	1	idc10	M20-9980546	102-2236		14	0	14	10 10
RJ45	Connector	RJ100A, RJ100B, RJ100C, RJ100D	4	RJ45	M22F2011005	671-976		8	0	32	40
SIP2	Connector	J106A, J106B, J106C, J106D, JP1, JP2, JP3, JP101A, JP101B, JP101C, JP101D	11	SIP2	M22-2030205	672-117		2	0	22	110 110
LED	LED	LED1, LED2, LED3, LED4, LED5, LED100A, LED100B, LED100C, LED100D, LED101A, LED101B, LED101C, LED101D, LED102A, LED102B, LED102C, LED102D, LED103A, LED103B, LED103C, LED103D	21	0805LED	LSR976-Z	1212729	2	42	0	210	
1K	Resistor	R1, R5, R17, R21, R24	5	603		923-3385	2	10	0	50	64
100 R	Resistor	R3, R25, R44, R47	4	603		923-3253	2	8	0	40	100
15K	Resistor	R9	1	603		923-3520	2	2	0	10	40+
330 R	Resistor	R10, R19	2	603		923-3318	2	4	0	20	40+
1 R	Resistor	R11, R12	2	805	232273461008	923-7127	2	4	0	20	40+
220 R	Resistor	R18	1	603	232270260221	923-3296	2	2	0	10	40+
470 R	Resistor	R20	1	603	232270260471	923-3334	2	2	0	10	40+
4.7K	Resistor	R23, R45, R46	3	603	232270260472	923-3466	2	6	0	30	40+
10 R	Resistor	R27, R29, R33, R39	4	603	232270260109	923-3148	2	8	0	40	130+
1M	Resistor	R42	1	603	232270260105	923-3741	2	2	0	10	40+
56 R	Resistor	R43	1	603	232270260569	923-3229	2	2	0	10	40+
22 R	Resistor	R100A, R100B, R100C, R100D, R103A, R103B, R103C, R103D, R105A, R105B, R105C, R105D, R108A, R108B, R108C, R108D	16	402	CRG0402J22R-10	1174143	2	32	0	160	200
22/27 R	Resistor	R101A, R101B, R101C, R101D, R104A, R104B, R104C, R104D	8	402	CRG0402J10R-10	1174141	2	16	0	80	100

100 R	Resistor	R102A, R102B, R102C, R102D, R107A, R107B, R107C, R107D, R110A, R110B, R110C, R110D	12	402	CRG0402J100R-10	1174146	2		24	0	120	200
22/27 R	Resistor	R106A, R106B, R106C, R106D, R109A, R109B, R109C, R109D	8	402	CRG0402ZR	1174140	2		16	0	80	100
1K R	Resistor	R111A, R111B, R111C, R111D, R112A, R112B, R112C, R112D	8	402	CRG0402J1K0-10	1174154	2		16	0	80	100
330 RP	Resistor Ar	RP1, RP2, RP100A, RP100B, RP100C, RP100D	6	4X603	235002413301	9234772	2		12	0	60	100
33R Array	Resistor Ar	RP5, RP7, RP8	3	4X603	235002413309	9234713	2		6	0	30	100
PTH05030	DC-DC	U5	1	PTH05030	PTH05030WAD	110-3294		13	0	13	10	12
XC6204B182MR	Torex Linea	U8	1	SOT23-5	XC6204B182MR	360-5802	5		5	0	10	50
LMV7219	Comparato	U9	1	SOT23-5	LMV7219M5	977-8764	3		3	0	10	25
PT5402	DC-DC	U6	1	PT5402A		1296009		9	0	9	10	30
PT5401	DC-DC	U7	1	PT5401	PT5401A	1216735		9	0	9	10	21
MC100LVEL14DW	CLK Dist	U1	1	SOIC-20	MC100LVEL14DW	1496839	20		20	0	10	50
0 R	Resistor	R114A, R114B, R114C, R114D	4	805	232273091002	923-2516	2		8	0	40	100
BALUN	BALUN	TR100A, TR100B, TR100C, TR100D, TR101A, TR101B, TR101C, TR101D, TR102A, TR102B, TR102C, TR102D	12	at224	TC1-1-13M		5		60	0	120	173
1 uF IDC	IDC	C101A, C101B, C101C, C101D, C108A, C108B, C108C, C108D, C115A, C115B, C115C, C115D, C133A, C133B, C133C, C133D, C136A, C136B, C136C, C136D, C145A, C145B, C145C, C145D	24	0612idc			8		192	0	240	500
47 nF IDC	IDC	C105A, C105B, C105C, C105D, C109A, C109B, C109C, C109D, C123A, C123B, C123C, C123D, C134A, C134B, C134C, C134D, C137A, C137B, C137C, C137D, C146A, C146B, C146C, C146D	24	0508idc			8		192	0	240	500
ERNI 60 pin press fit connect		J103A, J103B, J103C, J103D	4	ERNI	973046						40	
Power con 4 pin connector		J4	1	Wiedmuller	SV7.62/02/90SF3.5SW			4	0	4	10	
MMCX-Connector	MMCX	J100A, J100B, J100C, J100D, J101A, J101B, J101C, J101D, J102A, J102B, J102C, J102D, J105A, J105B, J105C, J105D, J1,	17	MMCX				5	0	85	170	
XCF32PVO48C	XCF32PVO48	U10	1	VO48					0	0	0	
XCF16PVO48C	XCF16PVO48	U11	1	VO48					0	0	0	

BGA-668 Packages : 4

Total Number of SMD Soldering Joints :

1648

**Press fit connectors (ERNI-60-pins) : 4**

**Total Number of PTH Soldering Joints :**

**256**

**Total PCBs in the packet : 10 for this card. Other type 10 PCBs to be returned to RRI**

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