

Evaluation Board for the AD7738 8-Channel, High Throughput, 24-Bit ADC

Eval-AD7738EB

AD7738 EVALUATION SYSTEM CONTENTS

- EVAL-AD7738EB Evaluation Board
- PC COM Serial Cable
- Installation CD

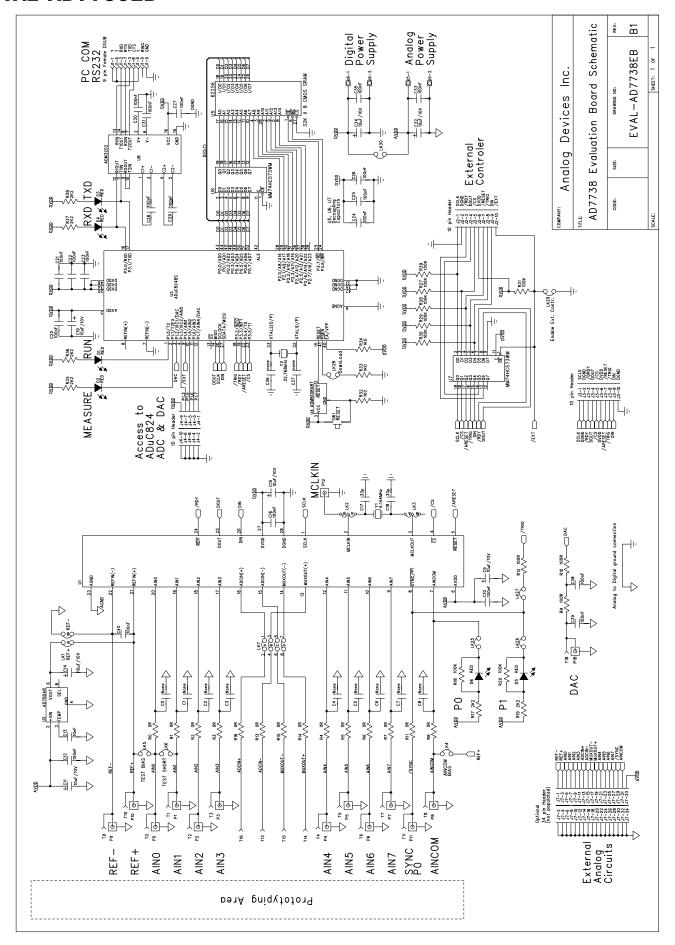
INSTALLATION

- Insert the AD7732/34/38 Evaluation System CD ROM into your CD ROM drive and double-click on the file "Setup.exe"
- Follow the on screen instructions to install the software on your PC

USING THE SOFTWARE

- Launch the AD7738 evaluation software (Use Start / Programs / Analog Devices / AD773x / AD7738)
- Follow the instructions on the "EasyStart" window.

EVAL-AD7738EB



-2- REV. B1

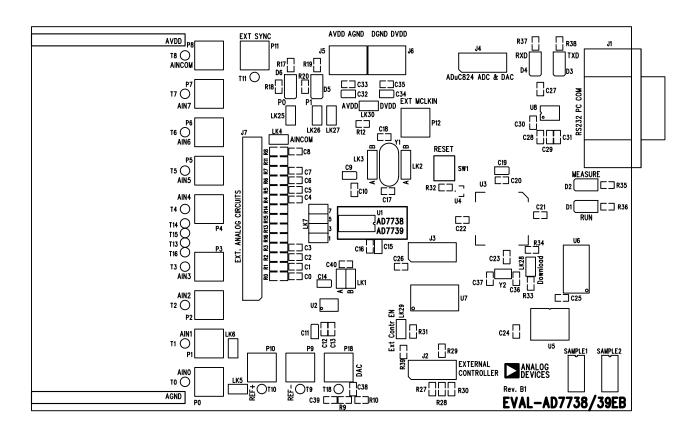


Figure 2. Evaluation Board Components Layout

REV. B1 -3-

EVAL-AD7738EB

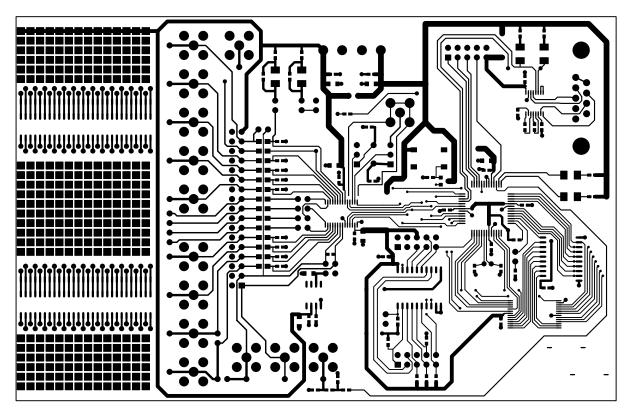


Figure 3. PCB Component Side Layout

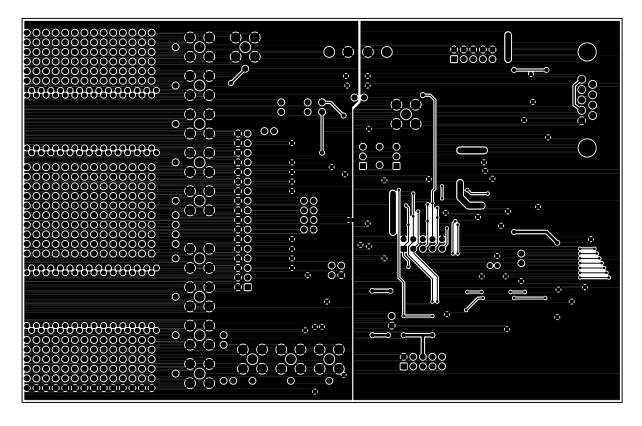


Figure 4. PCB Solder Side Layout

EVAL-AD7738EB

Component	Qty	Part	Description	Order No	Vendor
PCB	1		EVAL-AD7738EB Rev.B1		Analog Devices
U1	1	AD7738BRU	Sigma-Delta ADC TSSOP28	AD7738BRU	Analog Devices
Samples	2	AD7738BRU	Sigma-Delta ADC TSSOP28	AD7738BRU	Analog Devices
U2	1	AD780AR	Voltage Reference SO8	AD780AR	Analog Devices
U3	1	ADuC824BS	MicroConverter PQFP52	ADuC824BS	Analog Devices
U4	1	ADM810RART	Reset supervisory circuit SOT23	BADM810RART	Analog Devices
U8	1	ADM3202ARU	RS232 interface TSSOP-16	ADM3202ARU	Analog Devices
U5	1	62256	32K x 8 SRAM, 28 TSOP28	352-8509	Farnell
U6-7	2	74HC573	Transparent Latch, SO20	379-580	Farnell
D1-6	6	RED	SMD Red LED	515-607	Farnell
C17 C18	2	33pF	SMD Ceramic Cap, 0603 Case	498-555	Farnell
C13	1	10nF	SMD Ceramic Cap, 0603 Case	499-146	Farnell
C10 C12 C16 C20-31 C33 C35 C38 C39-40		100nF	SMD Ceramic Cap, 0603 Case	499-675	Farnell
C9 C11 C14-15 C19 C32 C34	7	10uF/10V	SMD Tantalum Cap, Case A	197-130	Farnell
R0-R8, R11, R13-16	14	0R	SMD Resistor, 0603 Case	772-239	Farnell
R13 R15 R16	3	100R	SMD Resistor, 0603 Case	612-364	Farnell
R32-34	3	1K0	SMD Resistor, 0603 Case	612-480	Farnell
R17 R19 R35-38	6	2K2	SMD Resistor, 0603 Case	612-522	Farnell
R18 R20 R27-31 R39	8	100K	SMD Resistor, 0603 Case	612-728	Farnell
<u> </u>	1	6.144MHz	Crystal	300-6013-ND	DigiKey
Y2		32.768kHz	Watch crystal	221-533	Farnell
1.2	1	54.100KHZ	waten erystar	<u> </u>	ramen
SW1	1	Pushbutton	SMD push button switch	177-807	Farnell
P0-12 P18	14	Socket	50ohm PCB SMB Jack	310-682	Farnell
 J1	1	Socket	9 Pin 90° D-Type Socket	150-754	Farnell
J5-6	2	Socket	2 Pin Terminal Block	151-789	Farnell
LK1	1	2x2 pin	Double Row Link Header 0.1"	148-535	Farnell
LK2-3	2	1x3 pin	Single Row Link Header 0.1"	148-533	Farnell
LK4-6 LK25-30	9	1x2 pin	Single Row Link Header 0.1"	148-533	Farnell
LK7	1	2x4 pin	Double Row Link Header 0.1"	148-535	Farnell
 J2-4	3	2x5 pin	Double Row Link Header 0.1"	148-535	Farnell