



# Evaluation Board for the AD7734 4-Channel, High Throughput, 24-Bit ADC

<b>Eval-AD7734-EB</b>
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## AD7734 EVALUATION SYSTEM CONTENTS

- EVAL-AD7734EB 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 AD7734 evaluation software (Use Start / Programs / Analog Devices / AD773x / AD7734)
- Follow the instructions on the "EasyStart" window.

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# EVAL-AD7734-EB

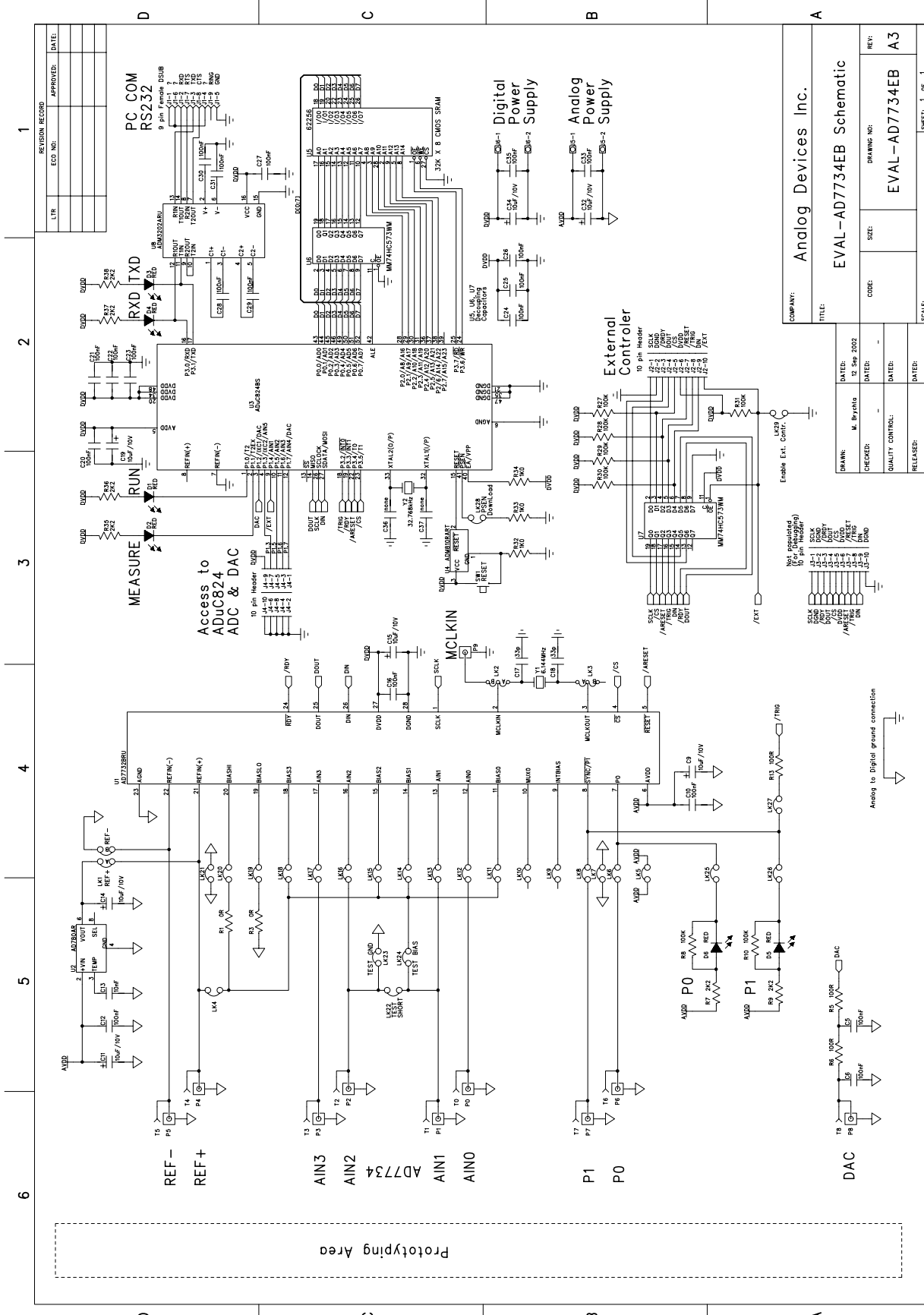


Figure 1. Evaluation Board Schematic Diagram

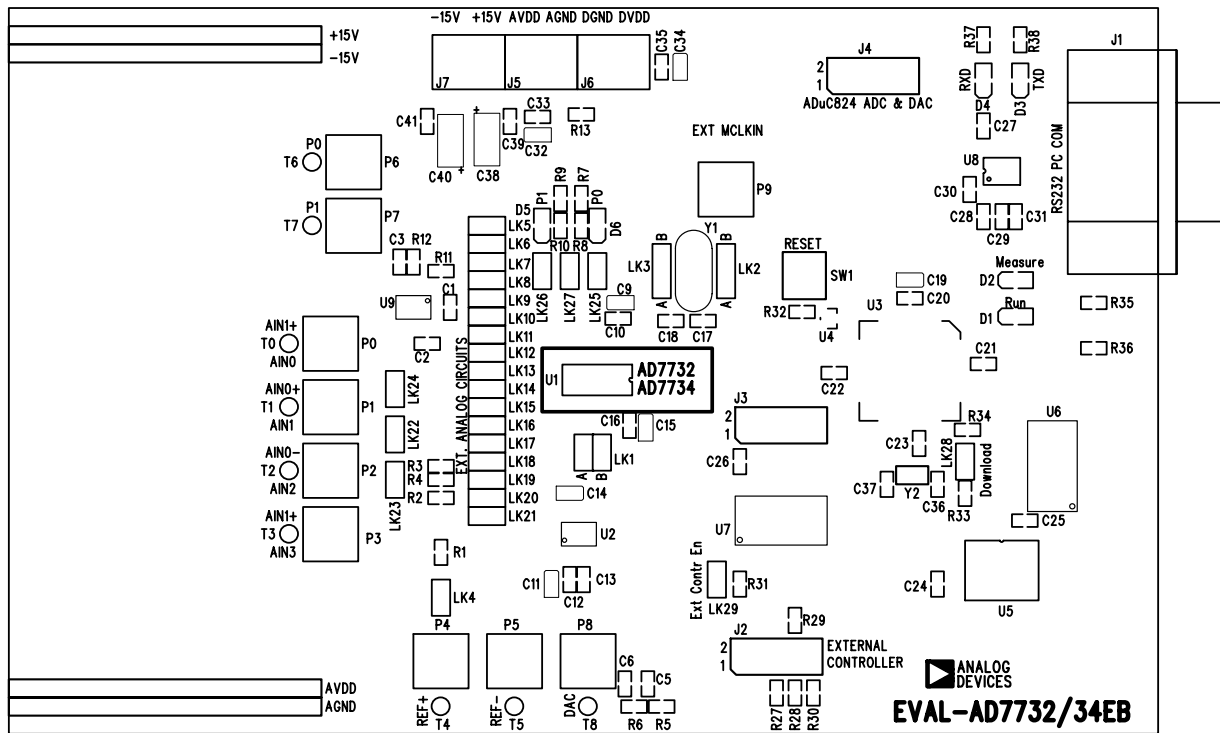


Figure 2. Evaluation Board Component Layout Diagram

# EVAL-AD7734-EB

Component	Qty	Part	Description	Order No	Vendor
PCB	1		EVAL-AD7732/34EB		Analog Devices
U1	1	AD7734BRU	Sigma-Delta ADC TSSOP28	AD7734BRU	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	ADM810RART	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
C2-3 C5-6 C10 C12 C16 C20-31 C33 C35 C39 C41	23	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
C38 C40	2	10uF/25V	SMD Tantalum Cap, Case C	197-518	Farnell
R1 R3	2	0R	SMD Resistor, 0603 Case	772-227	Farnell
R5 R6 R13	3	100R	SMD Resistor, 0603 Case	612-364	Farnell
R32-34	3	1K0	SMD Resistor, 0603 Case	612-480	Farnell
R7 R9 R35-38	6	2K2	SMD Resistor, 0603 Case	612-522	Farnell
R8 R10 R27-31	7	100K	SMD Resistor, 0603 Case	612-728	Farnell
Y1	1	6.144MHz	Crystal	300-6013-ND	DigiKey
Y2	1	32.768kHz	Watch crystal	221-533	Farnell
SW1	1	Pushbutton	SMD push button switch	177-807	Farnell
P0-9	10	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	964-207	Farnell
LK1	2	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 LK22-29	9	1x2 pin	Single Row Link Header 0.1"	148-533	Farnell
LK(5-21)	1	2x17 pin	Double Row Link Header 0.1"	148-535	Farnell
J2-4	3	2x5 pin	Double Row Link Header 0.1"	148-535	Farnell

Table 1. Evaluation Board Components List