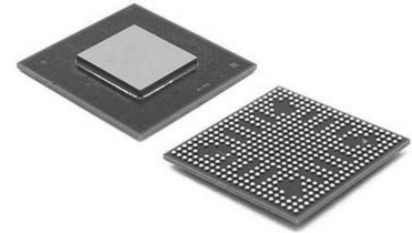


32:1 Analog Multiplexer IC, Single, 5.5 ohm, 1.8V to 5.5V, LFCSP-48

Manufacturers	Analog Devices, Inc
Package/Case	LFCSP-48
Product Type	Analog Switches Multiplexers ; Dual Supply 2V to 8V
RoHS	Rohs
Lifecycle	



Images are for reference only

Please submit RFQ for ADG731BCPZ or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The ADG731/ADG725 are monolithic, CMOS, 32-channel/dual 16-channel analog multiplexers with a serially controlled 3-wire interface. The ADG731 switches one of 32 inputs (S1–S32) to a common output, D. The ADG725 can be configured as a dual mux switching one of 16 inputs to one output, or a differential mux switching one of 16 inputs to a differential output.

These multiplexers utilize a 3-wire serial interface that is compatible with SPI®, QSPI™, MICROWIRE™, and some DSP interface standards. On power-up, the Internal Shift Register contains all zeros and all switches are in the OFF state.

These multiplexers are designed on an enhanced submicron process that provides low power dissipation yet gives high switching speed with very low on resistance and leakage currents. They operate from a single supply of 1.8 V to 5.5 V or a ± 2.5 V dual supply, making them ideally suited to a variety of applications. On resistance is in the region of a few ohms, is closely matched between switches, and is very flat over the full signal range.

These parts can operate equally well as either multiplexers or demultiplexers and have an input signal range that extends to the supplies. In the OFF condition, signal levels up to the supplies are blocked. All channels exhibit break-before-make switching action, preventing momentary shorting when switching channels.

The ADG731 and ADG725 are serially controlled 32-channel, and dual/differential 16-channel multiplexers, respectively. They are available in either a 48-lead LFCSP or TQFP package.

Product Highlights

3-Wire Serial Interface.

1.8 V to 5.5 V Single-Supply or ± 2.5 V Dual-Supply Operation. These parts are specified and guaranteed with $5\text{ V} \pm 10\%$, $3\text{ V} \pm 10\%$ single-supply, and $\pm 2.5\text{ V} \pm 10\%$ dual-supply rails.

On Resistance of 4 W.

Guaranteed Break-Before-Make Switching Action.

7 mm × 7 mm 48-Lead Chip Scale Package (LFCSP) or

48-Lead TQFP Package.

Features

3-Wire SPI Compatible Serial Interface

1.8 V to 5.5 V Single Supply

4 Ω On Resistance

0.5 Ω On Resistance Flatness

7 mm x 7 mm 48-Lead Chip Scale Package (LFCSP) or 48-Lead TQFP Package

Rail-to-Rail Operation

Power-On Reset

See data sheet for additional feature

Application

Optical Applications

Data Acquisition Systems

Communication Systems

Relay Replacement

Audio and Video Switching

Battery-Powered Systems

Medical Instrumentation

Automatic Test Equipment

Related Products



[ADV7181CBSTZ](#)

Analog Devices, Inc
LQFP-64



[AD724JR](#)

Analog Devices, Inc
SOIC-16



[ADV7391WBCPZ](#)

Analog Devices, Inc
LFSCP-3



[ADV7341BSTZ](#)

Analog Devices, Inc
LQFP-64



[AD8170AR](#)

Analog Devices, Inc
SOP8



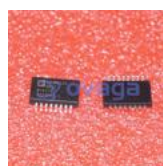
[ADV7393BCPZ](#)

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LFCSP-VQ-40



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QFN32



[ADUM4160BRIZ](#)

Analog Devices, Inc
SOIC-16