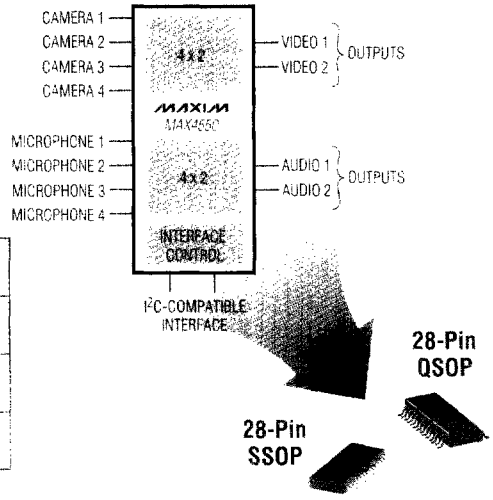
NEW

Serially Controlled, Dual 4x2, "Clickless" Audio/Video Crosspoints

The new MAX4550/MAX4570 serially interfaced, programmable, dual 4x2 crosspoint switches are ideal for multimedia audio/video applications. These devices have two identical sections, each consisting of a 4-input/2-output crosspoint switch. Each switch can be selectively programmed for hard-mode operation or for soft-mode when "clickless" audio operation is desired. The outputs can be switched to a set of resistor voltage-dividers, to be biased at ½ VCC for AC coupling the inputs. Four auxiliary outputs are provided to extend µP ports, allowing additional circuitry to be controlled from the same 2- or 3-wire interface. SX and SY are additional crosspoint inputs that can be used as a shunt to improve feedthrough. The MAX4550/MAX4570 are available in space-saving 28-pin QSOP and SSOP packages as well as a wide SO, and they operate in the -40°C to +85°C temperature range.



Part	Serial-Interface Type	Switch Configuration	Supply Voltage (V)	Crosstalk and Off-Isolation (dB)	
				Audio (at 20kHz)	Video (at 4.2MHz)
MAX4550	2-Wire, Fast Mode, I2C™ Compatible	Dual 4x2	+2.7 to +5.5, ±2.7 to ±5.5	-95	-55
MAX4570	3-Wire, SPI™/ QSPI™ Compatible	Dual 4x2	+2.7 to +5.5, ±2.7 to ±5.5	-95	-55

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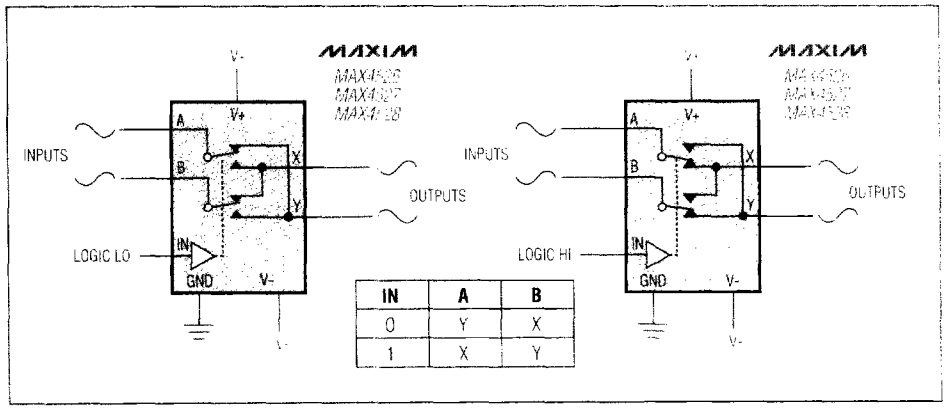
SPI and QSPI are trademarks of Motorola, Inc.

Phase-Reversal ICs Pack 4 SPST Switches into an 8-Pin µMAX

Matched Switches Simplify Polarity/Wiring Phase-Reversal

Devices in the MAX4526 family of phase-reversal switches integrate four single-pole/single-throw (SPST) switches in an 8-pin µMAX package. These switches have been designed to provide three unique features. First, the four SPST switches are arranged in a bridge configuration for use in Auto Cal and VOS cancellation circuits. Second, each switch has matched turn-on time (tON), turn-off time (tOFF), and charge injection (Qj) for use in circuits such as lock-in amplifiers and synchronous demodulators. Last, the bridge configuration makes them easy to use in polarity/wiring phase reversal. Each switch is designed for 175Ω max on-resistance and is matched to 8Ω max. The charge injection is matched to less than 1pC for a 10Vp-p signal range. The MAX4526/MAX4527 are designed for ±15V applications and the MAX4528 is optimized for low voltages from ±2.7V to ±5.5V. All parts are available over the commercial and extended temperature ranges in 8-pin SO, µMAX, and DIP packages.



IN	A	B
0	Y	X
1	X	Y