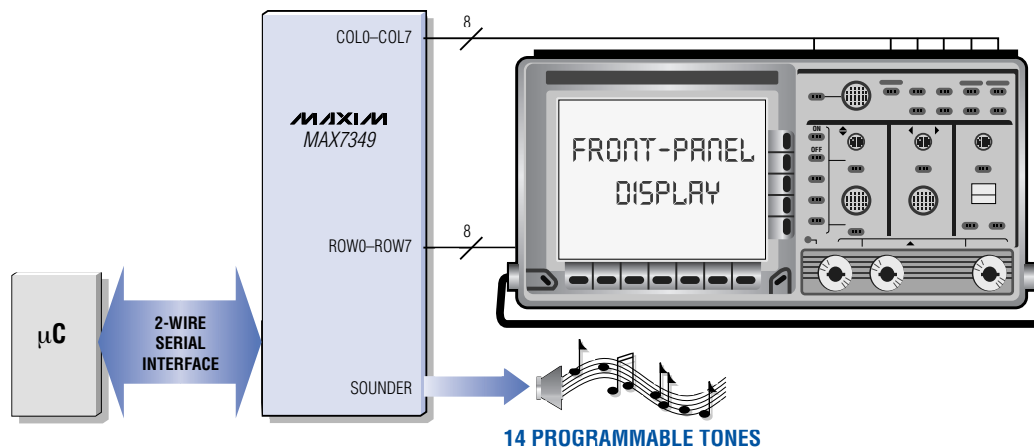


LOW-NOISE, KEY-SWITCH CONTROLLERS DEBOUNCE 16, 24, 40, OR 64 KEYS

Programmable Sounder Driver Generates Key Clicks and Other Sounds

The MAX7347/MAX7348/MAX7349 key-switch controllers monitor and debounce up to 16, 24, 40, or 64 keys, respectively. Static key monitoring ensures low-EMI operation for noise-sensitive applications. The interrupt out ($\overline{\text{INT}}$) can be configured to alert key presses as they occur or at a programmable minimum interval. An integrated sounder driver can generate automatic key-click sounds. The programmable tones cover the fifth musical octave (587Hz to 987Hz) and seven additional musical notes. The sounder output can also operate an electronic sounder, relay, or lamp for a set time instead of generating a frequency. These controllers have a 400kHz, I²C™ serial interface with bus timeout for lockup-free operation.



Key-Switch Controller

- ◆ 8-Key FIFO Stores Debounced Key-Switch Events
- ◆ Integrated Ghost Key Elimination
- ◆ Programmable Debounce Duration and Key Autorepeat
- ◆ $\overline{\text{INT}}$ Output with Programmable $\overline{\text{INT}}$ Rate When Debounced Key Press(es)

Sounder Generator

- ◆ Musical Tone Generator
- ◆ Programmable or Continuous Sounder Duration
- ◆ Two-Tone Sound Generation
- ◆ Automatic Key-Tone Generation for Key-Click Audible Feedback

Part	No. of Keys Monitored	No. of 20mA Sinks	Temp Range (C°)	Pin-Package
MAX7347AEE	16 to 24	1	-40 to +125	16-QSOP
MAX7348AEP	Up to 40	3	-40 to +125	20-QSOP
MAX7349AEG	Up to 64	6	-40 to +125	24-QSOP
MAX7349ANG	Up to 64	6	-40 to +125	24-PDIP

I²C is a trademark of Philips Corp. Purchase of I²C components of Maxim Integrated Products, Inc., or one of its sublicensed Associated Companies, conveys a license under the Philips I²C Patent Rights to use these components in an I²C system, provided that the system conforms to the I²C Standard Specification as defined by Philips. SPI is a trademark of Motorola, Inc.



www.maxim-ic.com

FREE Display Design Guide—Sent Within 24 Hours!
CALL TOLL FREE 1-800-998-8800 (6:00 a.m.–6:00 p.m. PT)
For a Design Guide or Free Sample



Distributed by Maxim/Dallas Direct!, Arrow, Avnet Electronics Marketing, Digi-Key, and Newark.

The Maxim logo is a registered trademark of Maxim Integrated Products, Inc. The Dallas Semiconductor logo is a registered trademark of Dallas Semiconductor Corp.

© 2005 Maxim Integrated Products, Inc. All rights reserved.