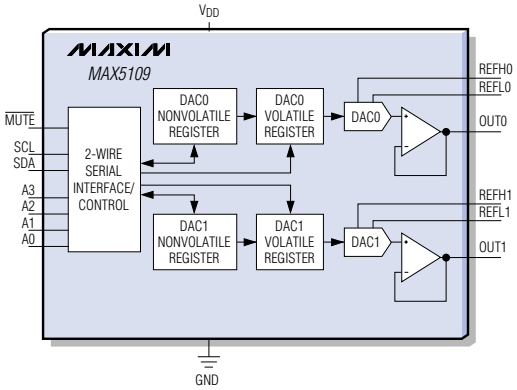
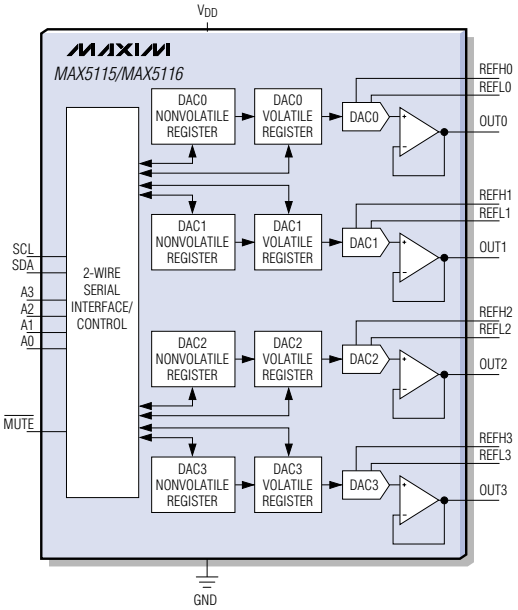
# BEST-IN-CLASS, 8-BIT, DUAL AND QUAD DACs WITH ON-CHIP NONVOLATILE MEMORY

The integrated nonvolatile (NV) memory of the dual MAX5109 and quad MAX5115/MAX5116 DACs stores the DAC operating modes and output states for use at power-up. This capability makes these DACs ideal for digital gain and offset adjustments, programmable attenuators, power-amp bias control, and laser drivers. In addition, these DACs are best-in-class for analog accuracy, temperature drift, and low power dissipation.

400kHz I²C* Interface




- ♦ NV Registers Initialize DACs to Stored States
- ♦ <0.5 LSB DNL and 1 LSB INL
- ♦ <1 LSB Gain Error
- ♦ Low Offset, Gain, and Full-Scale Tempco
- ♦ Rail-to-Rail Output
- ♦ Small 16-/20-Pin QSOP
- ♦ 200µA/DAC Supply Current
- ♦ 25µA Power-Down Mode
- ♦ High-Impedance Reference Inputs
- ♦ 16 I²C Addresses
- ♦ Asynchronous $\overline{\text{MUTE}}$ Input Option
- ♦ +2.7V to +5.5V Single-Supply Operation

| Part | No. of DACs | REF Inputs | | MUTE | Package | Price† ($) |
|---|---|---|---|---|---|---|
| | | High | Low | | | |
| MAX5109 | 2 | 2 | 2 | Yes | 16-QSOP | 3.45 |
| MAX5115 | 4 | 4 | 4 | No | 20-QSOP | 6.10 |
| MAX5116 | 4 | 1 | 1 | Yes | 16-QSOP | 6.10 |

*Purchase of I²C components from 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 defined by Philips.

†1000-up recommended resale. Prices provided are for design guidance and are FOB USA. International prices will differ due to local duties, taxes, and exchange rates. Not all packages are offered in 1k increments, and some may require minimum order quantities.

MAXIM

**www.maxim-ic.com**

***FREE* D/A Converters 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**

MAXIM/DALLAS DIRECT! DISTRIBUTION
1-888-MAXIM-IC

ARROW ELECTRONICS, INC.
1-800-777-2776

AVNET CILICON
1-800-332-8638

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