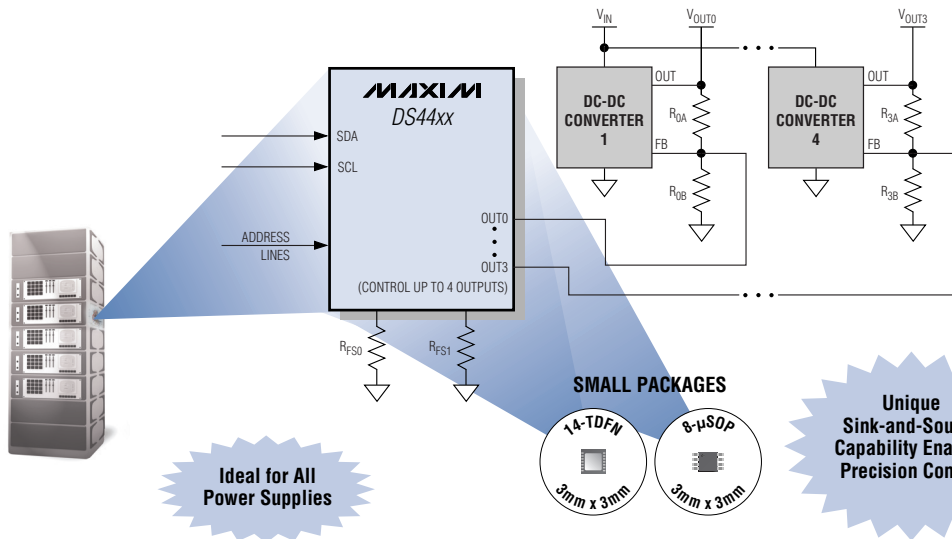


# INDUSTRY'S ONLY SINK/SOURCE CURRENT DACs

## Ideal for Margining, Calibration, and Real-Time Control of Power Supplies

The DS44xx family of current DACs maximize versatility and minimize power-supply redesign by adjusting the current into a DC-DC voltage-supply feedback input. Sinking or sourcing current into the DC-DC feedback node provides easy adjustment of the DC-DC output voltage. This unique functionality makes these DACs ideal for precision calibration, voltage margining at test, or dynamic real-time control for load requirements.

### TYPICAL CIRCUIT CONFIGURATION



- ◆ Power Up in “Zero” Current Mode
- ◆ External Resistors Set Full-Scale Range for Each Channel
- ◆ 0.5 LSB (max) Differential Linearity
- ◆ Simple Control Through I<sup>2</sup>C Serial Interface
- ◆ 2.7V to 5.5V Supply Range
- ◆ -40°C to +85°C Temperature Range

Part	No. of Channels	No. of Sink/Source Levels	Full-Scale Current Range	Package (mm x mm)	Price <sup>†</sup> (\$)
DS4412	2	15/15	500μA to 2mA	14-TDFN (3 x 3)	0.51
DS4402		31/31	500μA to 2mA		0.55
DS4422*		127/127	50μA to 200μA		*
DS4404	4	31/31	500μA to 2mA	14-TDFN (3 x 3)	0.73
DS4424*	4	127/127	50μA to 200μA		*

\*Future product—contact factory for availability.

<sup>†</sup>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.



[www.maxim-ic.com/DS44xx-info](http://www.maxim-ic.com/DS44xx-info)

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**CALL TOLL FREE 1-800-998-8800 (7:00 a.m.–5:00 p.m. PT) for a Design Guide or Free Sample**



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