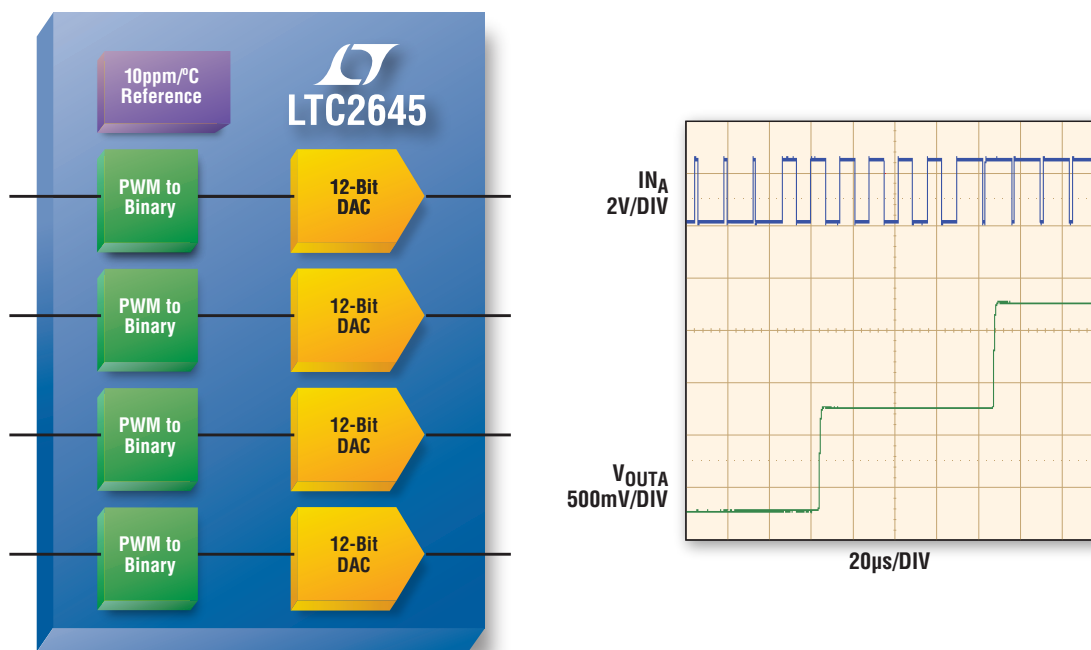


PWM to DC in One Cycle



No Software. No Ripple. No Latency.

Linear Technology's PWM to V_{OUT} DACs convert a PWM (pulse width modulation) input to an accurate, stable, buffered voltage without the ripple, slow settling and external passive components of discrete filter implementations. The LTC®2645 quad PWM DAC measures the period and pulse width of the PWM input signal and updates the DAC output immediately with up to 12-bit accuracy, no software coding required.

Features

- 30Hz to 100kHz PWM Input
- Buffered Rail-to-Rail Voltage Output
- Updates and Settles within 8µs
- 10ppm/°C Internal Reference; 2.5V Full Scale
- Pin-Selectable Internal or External Reference
- ± 2.5 LSB Max INL; ± 1 LSB Max DNL
- 2.7V to 5.5V Supply
- 1.71V to 5.5V PWM Inputs

Dual and Quad PWM to V_{OUT} DACs

	12-Bit	10-Bit	8-Bit
Dual 12-Pin MSOP	LTC2644-12	LTC2644-10	LTC2644-8
Quad 16-Pin MSOP	LTC2645-12	LTC2645-10	LTC2645-8

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