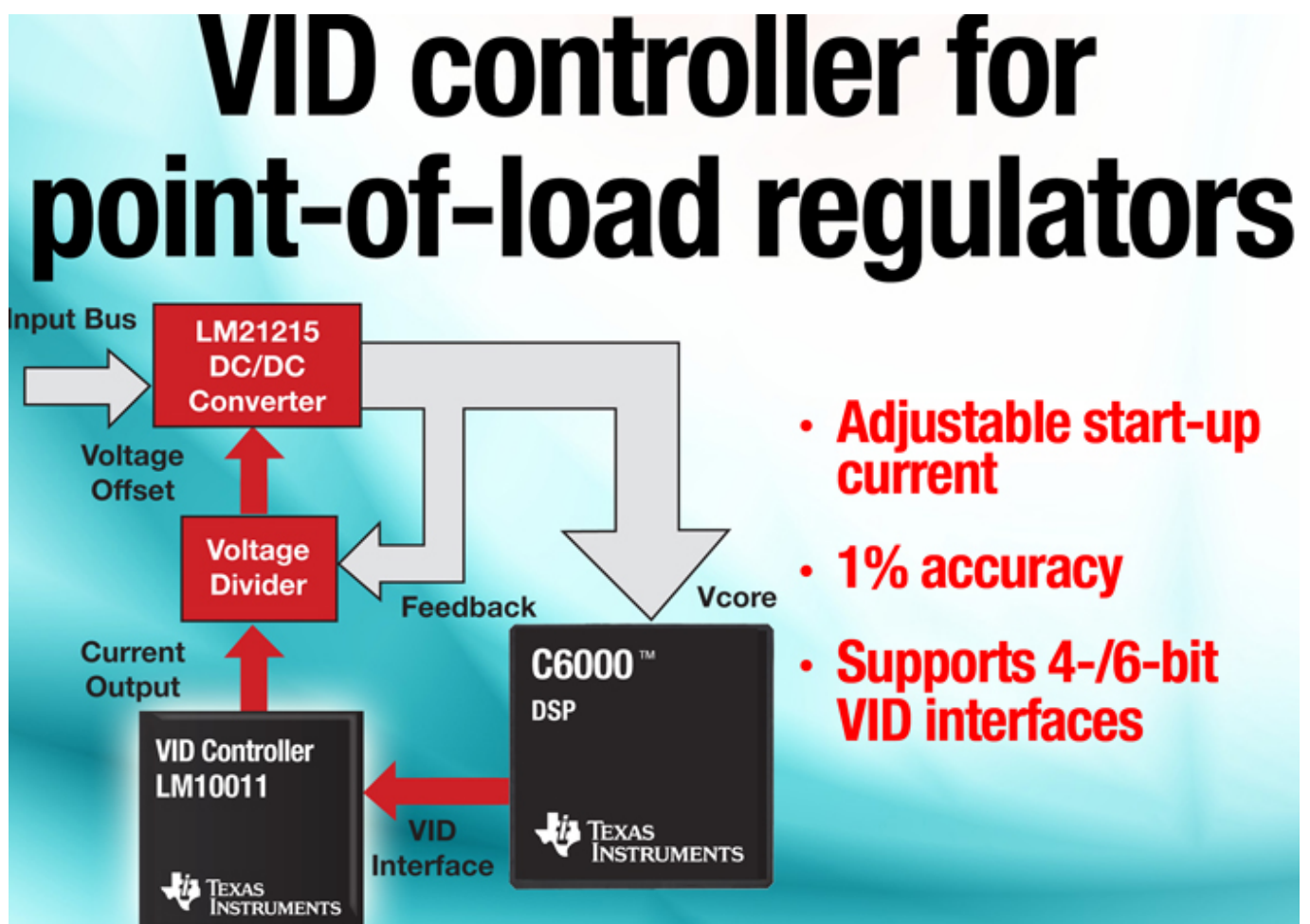


## Voltage identification IC features one-percent output accuracy

Texas Instruments Incorporated (TI) introduced a power management controller with 4- and 6-bit voltage identification (VID) interfaces. The LM10011 is the first VID controller designed to operate along with a point-of-load regulator to adjust the core voltage (V<sub>CORE</sub>) of a VID-enabled processor, such as TI's [C6000 power-optimized DSPs](#) [1] and [KeyStone multicore DSPs](#) [2]. The LM10011 enables TI's DSPs to realize their full power savings capability to reduce power consumption in wireless infrastructure applications. The controller features industry-leading one-percent output accuracy and adjustable output current during start-up. For more information and samples, visit [www.ti.com/lm10011-pr](http://www.ti.com/lm10011-pr) [3].



The LM10011 VID controller operates over a 2.97-V to 5.5-V input voltage range and is a cost-effective, easy-to-use solution. It can be used with any point-of-load regulator that has a feedback node, such as TI's high-performance 15-A [LM21215](#) [4] and 25-A [TPS56221](#) [5] synchronous buck regulators. The LM10011 offers 16 pin-programmable current output options during start-up, allowing the DSP V<sub>CORE</sub> to power up various voltages to enable greater system flexibility and reliability. Watch a video demonstration at [www.ti.com/lm10011-prv](http://www.ti.com/lm10011-prv) [6].

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The LM10011 controller joins TI's family of high-accuracy VID products that include the [LM10010](#) [7], [UCD9244](#) [8], [UCD9224](#) [9], [UCD9248](#) [10] and [UCD9222](#) [11].

### Key features and benefits of the LM10011 VID controller

- 16 selectable start-up current options offer flexibility for system operation and higher system reliability.
- One-percent output voltage accuracy is fully compliant with C6000 VID table.
- 2.97-V to 5.5-V input voltage range supports both 5-V and 3.3-V bus voltages.
- Pin-selectable VID format allows 4-bit and 6-bit VID patterns.
- Precision enable supports custom under-voltage lockout (UVLO).

### Availability, packaging and pricing

The LM10011 VID controller is available in volume now from TI and its authorized distributors. Offered in a 10-pin QFN package that measures 3-mm by 3-mm by 0.5-mm, the LM10011 is priced at US\$0.60 in 1,000-unit quantities.

### Find out more about TI's VID controllers:

- Order samples and an evaluation module of the VID controller: [www.ti.com/lm10011-pr](http://www.ti.com/lm10011-pr) [3].
- Design a complete power management system online with TI's WEBENCH Power Designer: [www.ti.com/webenchpwr-pr](http://www.ti.com/webenchpwr-pr) [12].
- Ask questions and share knowledge in the power forum in the TI E2E Community: [www.ti.com/powerforum-pr](http://www.ti.com/powerforum-pr) [13].
- Download power reference designs from TI's PowerLab Reference Design Library: [www.ti.com/powerlab-pr](http://www.ti.com/powerlab-pr) [14].

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### Links:

[1] <http://TI.pr-optout.com/Tracking.aspx?Data=HHL%3d%40%2f63%3e%26JDG%3c%3d1%3e152.LP%3f%40083%3a&RE=MC&RI=3886530&Preview=False&DistributionActionID=14790&Action=Follow+Link>

[2] <http://TI.pr-optout.com/Tracking.aspx?Data=HHL%3d%40%2f63%3e%26JDG%3c%3d1%3e152.LP%3f%40083%3a&RE=MC&RI=3886530&Preview=False&DistributionActionID=14789&Action=Follow+Link>

[3] <http://TI.pr-optout.com/Tracking.aspx?Data=HHL%3d%40%2f63%3e%26JDG%3c%3d1%3e152.LP%3f%40083%3a&RE=MC&RI=3886530&Preview=False>

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also&DistributionActionID=14780&Action=Follow+Link

[4] <http://Ti.pr-optout.com/Tracking.aspx?Data=HHL%3d%40%2f63%3e%26JDG%3c%3d1%3e152.LP%3f%40083%3a&RE=MC&RI=3886530&Preview=False&DistributionActionID=14788&Action=Follow+Link>

[5] <http://Ti.pr-optout.com/Tracking.aspx?Data=HHL%3d%40%2f63%3e%26JDG%3c%3d1%3e152.LP%3f%40083%3a&RE=MC&RI=3886530&Preview=False&DistributionActionID=14787&Action=Follow+Link>

[6] <http://Ti.pr-optout.com/Tracking.aspx?Data=HHL%3d%40%2f63%3e%26JDG%3c%3d1%3e152.LP%3f%40083%3a&RE=MC&RI=3886530&Preview=False&DistributionActionID=14786&Action=Follow+Link>

[7] <http://Ti.pr-optout.com/Tracking.aspx?Data=HHL%3d%40%2f63%3e%26JDG%3c%3d1%3e152.LP%3f%40083%3a&RE=MC&RI=3886530&Preview=False&DistributionActionID=14785&Action=Follow+Link>

[8] <http://Ti.pr-optout.com/Tracking.aspx?Data=HHL%3d%40%2f63%3e%26JDG%3c%3d1%3e152.LP%3f%40083%3a&RE=MC&RI=3886530&Preview=False&DistributionActionID=14784&Action=Follow+Link>

[9] <http://Ti.pr-optout.com/Tracking.aspx?Data=HHL%3d%40%2f63%3e%26JDG%3c%3d1%3e152.LP%3f%40083%3a&RE=MC&RI=3886530&Preview=False&DistributionActionID=14783&Action=Follow+Link>

[10] <http://Ti.pr-optout.com/Tracking.aspx?Data=HHL%3d%40%2f63%3e%26JDG%3c%3d1%3e152.LP%3f%40083%3a&RE=MC&RI=3886530&Preview=False&DistributionActionID=14782&Action=Follow+Link>

[11] <http://Ti.pr-optout.com/Tracking.aspx?Data=HHL%3d%40%2f63%3e%26JDG%3c%3d1%3e152.LP%3f%40083%3a&RE=MC&RI=3886530&Preview=False&DistributionActionID=14781&Action=Follow+Link>

[12] <http://Ti.pr-optout.com/Tracking.aspx?Data=HHL%3d%40%2f63%3e%26JDG%3c%3d1%3e152.LP%3f%40083%3a&RE=MC&RI=3886530&Preview=False&DistributionActionID=14779&Action=Follow+Link>

[13] <http://Ti.pr-optout.com/Tracking.aspx?Data=HHL%3d%40%2f63%3e%26JDG%3c%3d1%3e152.LP%3f%40083%3a&RE=MC&RI=3886530&Preview=False&DistributionActionID=14778&Action=Follow+Link>

[14] <http://Ti.pr-optout.com/Tracking.aspx?Data=HHL%3d%40%2f63%3e%26JDG%3c%3d1%3e152.LP%3f%40083%3a&RE=MC&RI=3886530&Preview=False&DistributionActionID=14777&Action=Follow+Link>