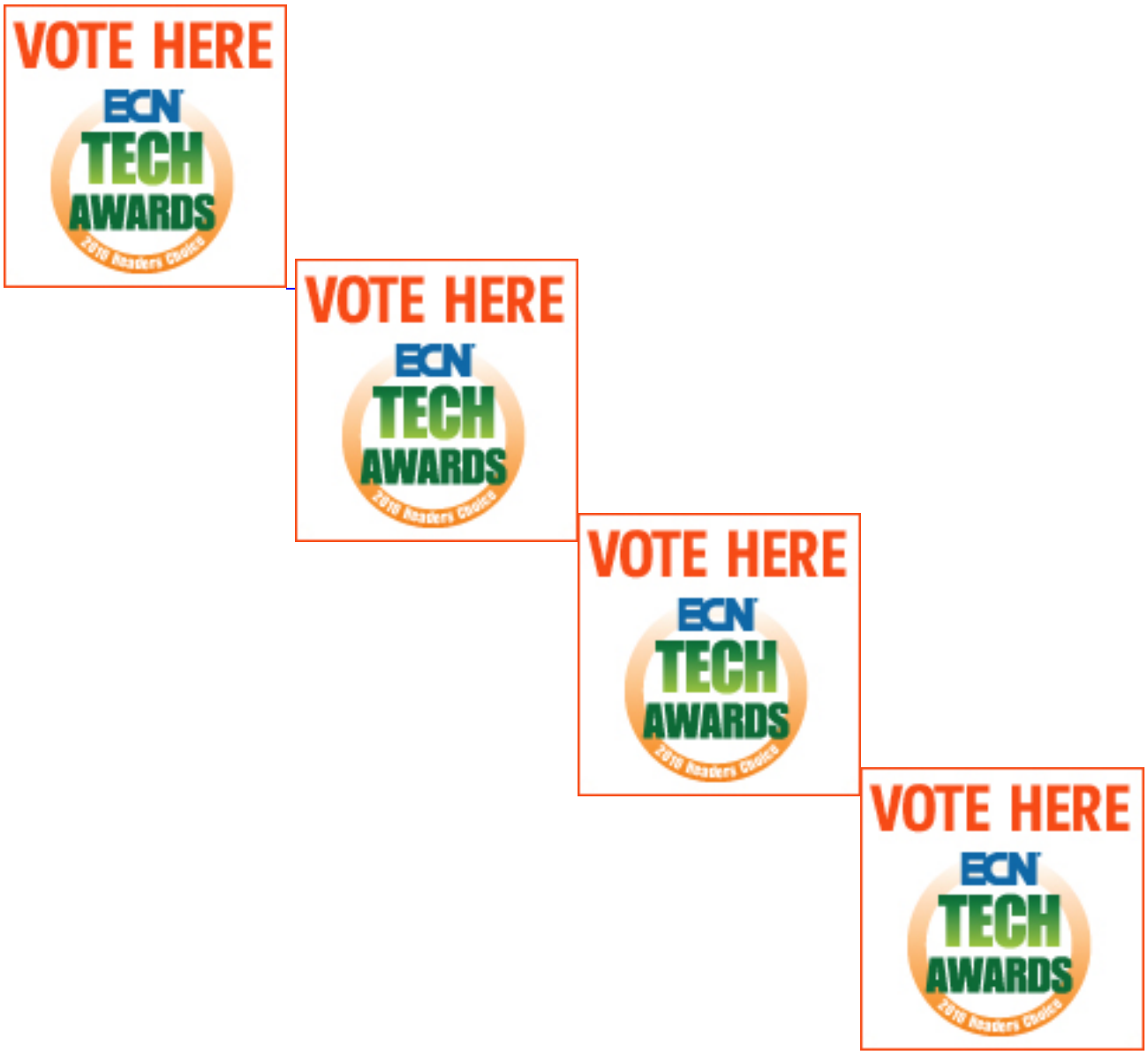
2010 Reader's Choice Tech Awards - Integrated Circuits



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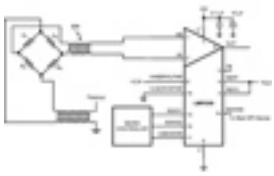
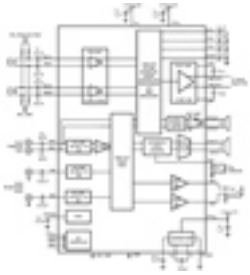


National Semiconductor - LMP8358 zero-drift, programmable instrumentation amplifier with on-chip diagnostics [2]

The LMP8358 uses patented techniques to measure and continuously correct its input offset voltage, eliminating offset drift over time and temperature and the effect of 1/f noise. http://www.national.com/pf/LM/LMP8358.html#Overview [2]


National Semiconductor - PowerWise LM49155 - Uplink Noise Suppression & Downlink SNR Enhancement Analog Audio Subsystem [3]

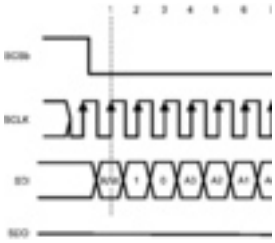
The PowerWise LM49155 dramatically improves the talker's voice-signal-to-background-noise ratio while retaining natural speech quality. http://www.national.com/pf/LM/LM49155.html#Overview [3]

National Semiconductor - DS90UB901Q/902Q FPD-Link III family of automotive-grade serializer and deserializer (SerDes) chipsets [4]

The FPD-Link III chipsets improve driver safety and response time by delivering clock, data, and real-time I2C bidirectional control, continuously over a single differential pair. http://www.national.com/analog/automotive/safety [4]

National Semiconductor - LM965XX eight-channel ultrasound transmit/receive chipset [5]

The LM965XX eight-channel ultrasound transmit/receive chipset enables the design of both hand-carried and handheld units that deliver longer battery life and imaging performance comparable to larger console systems. http://www.national.com/analog/medical/ultrasound [5]

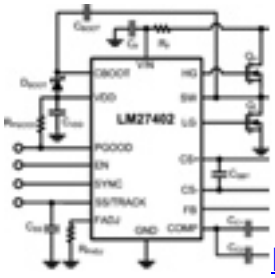


National Semiconductor ADC12D1800 12-bit analog-to-digital converter (ADC) [6]

At 3.6 Giga-samples per second, the ADC12D1800 is 3.6 times faster than any other available 12-bit device.
http://www.national.com/pf/DC/ADC12D1800.html#Overview [6]

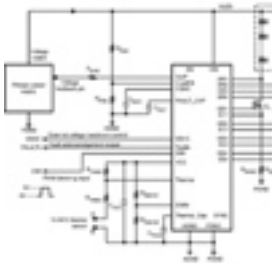
National Semiconductor SIMPLE SWITCHER LMZEXT Family [7]

The nine rugged but easy-to-use SIMPLE SWITCHER power modules feature an extended operating temperature range and vibration and drop testing for use in harsh environments.
http://www.national.com/analog/power/simple_switcher_power_modules#extproducts [7]



National Semiconductor - LM27402 20V Synchronous Buck Controller [8]

The LM27402 is a 20V synchronous buck controller combining a wide input voltage range, integrated high-current gate drivers with adaptive dead-time, inductor DCR current sensing and an on-chip bias supply sub-regulator .
http://www.national.com/pf/LM/LM27402.html#Overview [8]



National Semiconductor - LM3464 LED Driver with Dynamic Headroom [9]

The LM3464 is an LED driver with dynamic headroom control that efficiently drives up to four strings of LEDs.
http://www.national.com/pf/LM/LM3464.html#Overview [9]

Microchip Technology - PIC12F1822 8-pin, 8-bit microcontroller [10]

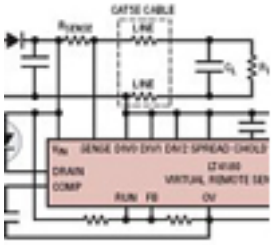
The PIC12F1822 microcontroller features include a low pin count and an industry-leading active current.
http://www.microchip.com/wwwproducts/Devices.aspx?dDocName=en544839 [10]

Silicon Laboratories - Si4010 EZRadio RF transmitter [11]

The Si4010 RF transmitter is the industry's first single-chip remote control IC requiring only one external bypass capacitor, a printed circuit board, battery and external case with pushbuttons to create a complete wireless remote control.
http://www.silabs.com/products/wireless/EZRadio/Pages/Si4010.aspx [11]

Fairchild Semiconductor - FSA9280A USB 2.0 Accessory Detection Switch w/ 28V FET [12]

The FSA9280A is a high-performance multimedia switch featuring automatic switching and accessory detection for the USB port.
http://www.fairchildsemi.com/pf/FS/FSA9280A.html [12]


Linear Technology - LTC4180 Virtual Remote Sense DC/DC Controller [13]

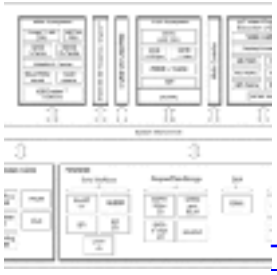
The LT4180 Virtual Remote Sense controller continuously interrogates the line impedance and corrects the power supply output voltage to maintain a steady voltage at the load regardless of current changes. www.linear.com/pr/4180 [14]

Fujitsu Semiconductor - MB95R203A MCU [15]

The MB95R203A MCU incorporates 8kb of non-volatile FRAM, featuring ultra-high access speeds and the ability to retain data in memory without power. http://www.fujitsu.com/us/news/pr/fma_20100921.html [15]

Texas Instruments - AM389x Sitara ARM MPUs [16]

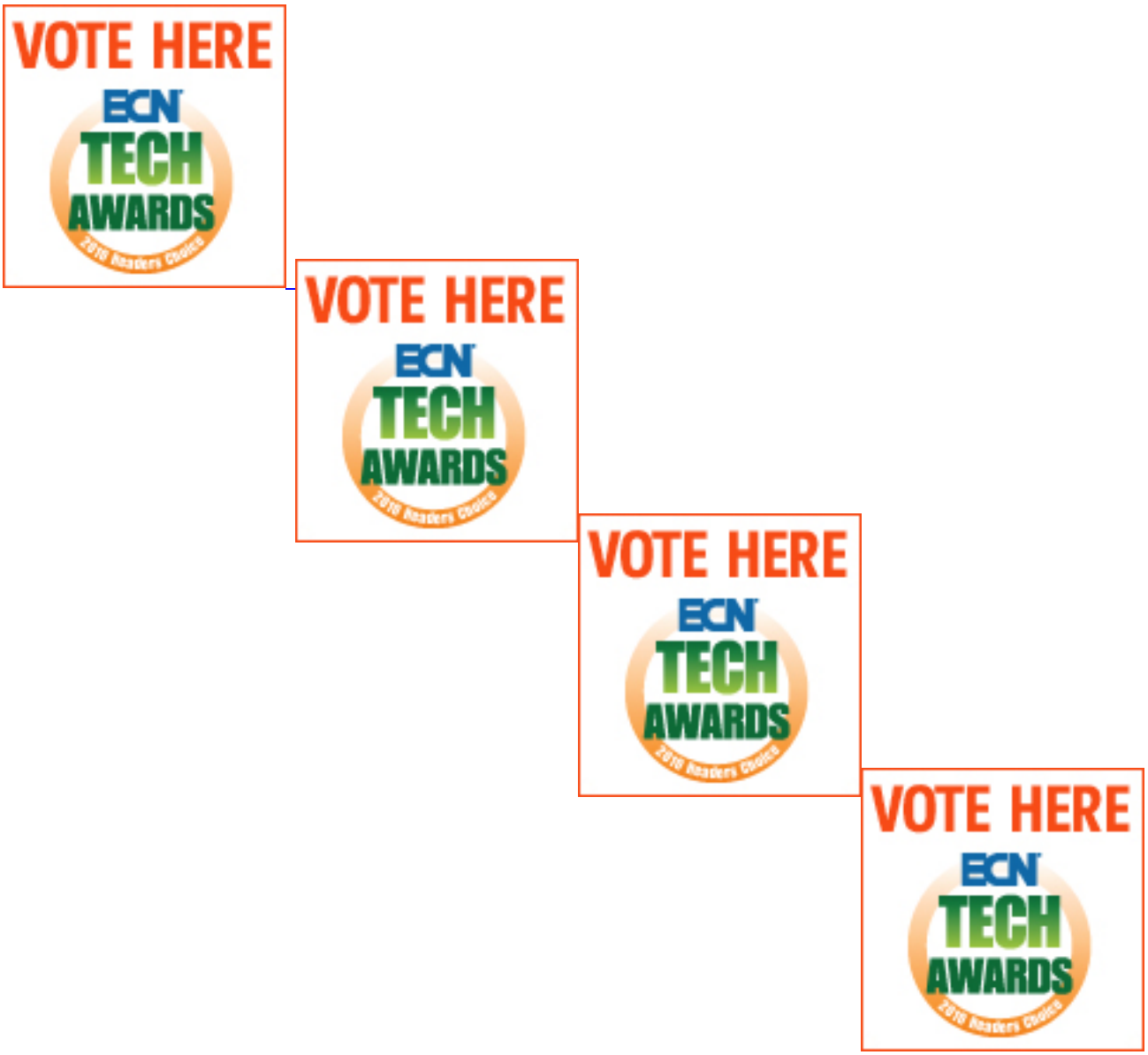
The AM389x Sitara ARM MPUs includes a single-core ARM Cortex-A8 with performance at up to 1.5 GHz, with multiple peripherals including PCIexpress Gen 2, SATA 2.0 and dual DDR2/DDR3 interfaces. http://focus.ti.com/paramsearch/docs/parametricsearch.tsp?family=dsp&sectionId=2&tabId=2687&familyId=1987&paramCriteria=no [16]


Texas Instruments - C6A8168 Integra DSP + ARM processor [17]

The C6A8168 DSP + ARM processor boasts the fastest single-core floating- and fixed-point DSP performance up to 1.5 GHz, with a single-core ARM Cortex-A8. http://focus.ti.com/docs/prod/folders/print/tms320c6a8168.html [17]

Texas Instruments - ADS1298 Family of Fully Integrated Analog Front Ends [18]

The eight-channel, 24-bit ADS1298 is the first in a family of fully integrated analog front ends (AFEs) for patient monitoring, portable and high-end electrocardiogram (ECG) and electroencephalogram (EEG).
http://www.ti.com/ads1298-pr [18]



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[1] http://www.surveymonkey.com/s/V67V9RF
[2] http://www.national.com/pf/LM/LMP8358.html#Overview
[3] http://www.national.com/pf/LM/LM49155.html#Overview
[4] http://www.national.com/analog/automotive/safety
[5] http://www.national.com/analog/medical/ultrasound
[6] http://www.national.com/pf/DC/ADC12D1800.html#Overview
[7] http://www.national.com/analog/power/simple_switcher_power_modules#extproducts
[8] http://www.national.com/pf/LM/LM27402.html#Overview
[9] http://www.national.com/pf/LM/LM3464.html#Overview
[10] http://www.microchip.com/wwwproducts/Devices.aspx?dDocName=en544839
[11] http://www.silabs.com/products/wireless/EZRadio/Pages/Si4010.aspx
[12] http://www.fairchildsemi.com/pf/FS/FSA9280A.html
[13] http://www.linear.com/pc/productDetail.jsp?navId=H0,C1,C1003,C1144,C1803,P90985
[14] http://www.linear.com/pr/4180
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[16] http://focus.ti.com/paramsearch/docs/parametricsearch.tsp?family=dsp&sectionId=2&tabId=2687&familyId=1987&paramCriteria=no
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[18] http://www.ti.com/ads1298-pr