

# SEMICONDUCTOR



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FOCUSED ON EMERGING SEMICONDUCTOR COMPANIES

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## Radar Scope

### Endura

Endura was formed in October 2013 as a fabless semiconductor company providing power management solutions for the microelectronics industry. Endura has developed patented system-level solutions for low-power mobile devices in the most advanced process nodes. Its focus areas are embedded power management for very demanding SoC CPU type applications, as well as stand-alone PMICs. Endura is a portfolio company of the Bridgewest Group and is fully funded. The company has R&D centers in Dublin, Ireland and San Diego, California.

Endura's eVR, sVR, and ATC solutions reduce BOM cost and power usage, while increasing performance. eVR is embedded high efficiency, ultra-fast response, cost-effective voltage regulator IP tailored for demanding application domains of SoC like CPU and GPU. sVR is a high efficiency, fast response, cost-effective stand-alone system PMIC voltage regulator solution for less demanding SoC application domains. ATC (Active Transient Control) is patented thermal and power management IP,

with adaptive control suppressing voltage transients due to parasitic components while minimizing decap requirements.

The target market size is \$50+ billion, according to Endura. Competitors include Ferric Semiconductor, Lion Semiconductor, Gazelle Semiconductor, Dialog, TI, Richtech, Maxim, STMicro, Fairchild, and ROHM, among others. Endura's solution offers high switching frequency, 1us current sensing, seamless transient PFM/PWM, automatic phase shedding up 4 phases, flat efficiency across the entire load range, faster DVFS and start-up speed, PPA improvements, under/overshoot protection, BOM cost savings, elimination of passives, and a smaller board footprint.

Endura currently has multiple engagements. The company has disclosed a commercial partnership with **MediaTek** that aims at demonstrating power, performance, and area improvements at advanced process nodes. This marks the first milestone of Endura's embedded power solutions, using deep submicron technology. Endura and MediaTek have taped out eVR and ATC in advanced process nodes and MediaTek's latest product

offerings will include Endura's technology at the lowest process nodes.

In 2016, the company will offer 28nm and 10nm eVR, sVR and ATC. In 2017, the company plans to offer 7nm eVR, sVR and ATC. Endura is pursuing direct marketing of the sVR PMIC as well as licensing. Endura has foundry partnerships with TSMC and GlobalFoundries, and is in conversations with other large foundries.

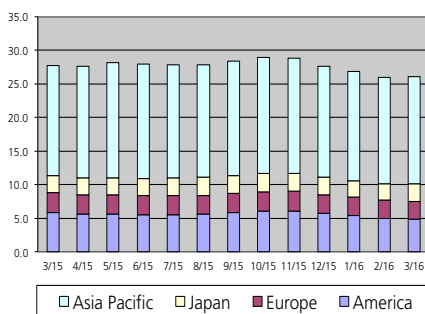
Taner Dosluoglu, Co-founder & CEO (previously director of engineering at Dialog Semi)

Hassan Ihs, Co-founder & CTO (previously a mixed-signal design consultant and CTO & Co-founder of Primachip)

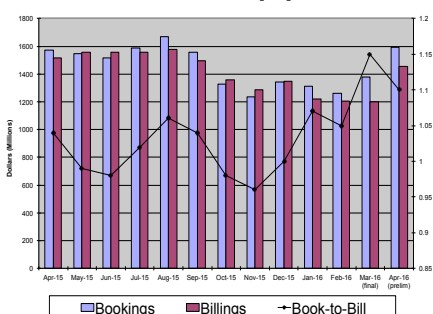
Massih Tayebi, Ph.D., Co-founder (Founding Partner and Chairman of the Bridgewest Group)

Patrick John Quinn, Head of Ireland design centre (previously Technical Steering Board Member at Micro-

SIA Global Sales (\$B)



SEMI's N. American Equipment BK/BL



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