



**AnDAPT pioneers On-Demand Power Management,  
launches Adaptive Multi-Rail Power Platform AmP ICs**

*Integrate Buck, Boost, LDO, Load Switch, Charger, Controller Power Components –  
lower cost, inventory and power*

**San Jose, California — December 5, 2016** – AnDAPT™, today announced AmP™ Adaptive Multi-Rail Power Platform family, a new genre of analog power management technology heralding an innovative user paradigm for “On-Demand Power Management,” and taking analog power designs to a new level of flexibility. Users can now, on-demand, select and integrate application targeted, proven Power Components on to an AmP Platform.

AnDAPT Power Components are highly integrated software-based components leading to lowered device costs, board space and inventory costs while facilitating full telemetry, providing customers with an ability to lower power by monitoring, sequencing and voltage scaling power components/POLs. Power Components replace traditional expensive catalog parts and include: Buck, Boost, Buck-Boost, Multi-phase regulators, Load Switches, LDOs, Battery Chargers, Multi-phase controllers, Sequencers, Supervisors and other point of load (POL) devices. With Power Components, on-demand power management design is easy and can be completed within a span of days, without requiring long development cycles, high production volumes or NRE costs typical of traditional custom PMU/PMIC solutions.

The AmP™ Adaptive Multi-Rail Power Platforms are supported by WebAmP™ cloud-based tools that include an extensive library of prebuilt and proven Power Components. WebAmP tools provide a user-friendly GUI, along with a power analysis tool suite, with an ability to on-demand adapt Power Components to user needs. AnDAPT also offers the AmPLink™ adapter to download user power design to AmP platforms.

“Our AmP devices bring unprecedented simplicity of drag-and-drop, affordability along with the benefits of power management where fixed catalog parts with limited to no power management ability have dominated,” said Kapil Shankar, President and CEO of AnDAPT. “Most importantly however, our flexibility offers customers design security, as they can always modify their power design through development cycle, yet avail benefits of custom power management.

"AnDAPT has a compelling and innovative product that is poised to have an enormous impact on the power management market that we estimate at \$14.1 billion," said Richard Wawrzyniak, Principal Analyst, Semico Research Corp. "Their technology represents the next stage in power management design efficiency and sophistication. With AnDAPT's AmP Platform and software, companies can craft complicated designs without the expense of funding a custom analog ASIC design effort while enjoying the benefits of using drag-and-drop power components to reduce design costs and design time."

“Options for creating customized, integrated power management solutions are non-existent,” said John Depew, Director of Hardware at an IoT company. “With AmP Platform, I found several benefits not available in other products, including flexibility provided by drag-and-drop software, the ability to integrate dissimilar power rails, reduced real estate and overall lower cost while maintaining efficiency. Flexibility to easily change power rails as the design evolved was key,” added John.

The AnDAPT AmP family addresses customer requirements for ever-increasing power density and the need to rapidly develop innovative products for dynamic end markets. First AmP family has been optimized to address 12V, Enterprise, Server/Client, Communications, Storage, IoT, Drones, Telematics, Medical and Industrial applications.

## **About AnDAPT Adaptive Analog Technology**

The AnDAPT AmP platform is engineered with ground breaking, patented, digitally wrapped  $\mu$ Analog on interconnect fabric technology.  $\mu$ Analog can be interconnected with fabric to create full-function analog power components such as voltage regulators, load switches etc., without issues of interface voltage, current, impedance, noise, isolation etc.  $\mu$ Analog delivers benefits of traditional analog power engineering skills and proficiency, which combined with interconnect fabric and logic, enables, flexibility for creation of a variety of power components including POLs, on-demand. This resulting technology is a unique new genre of analog. In future, AnDAPT will offer platforms for broad spectrum of both power and non-power analog applications.

## **About On-Demand Power Components**

AnDAPT offers a broad selection of Power Components for the AmP family, with competitive figures of merit that replace traditional catalog parts/POLs. Customers therefore no longer have to inventory a large set of catalog POLs devices, lowering their inventory Capex/Opex expense. Power components of various topologies, range from buck, boost, buck-boost, battery chargers, load switches, LDOs to gate drivers, controllers, sequencers and supervisors. Single and multi-phase regulators and controller topologies are also offered. These come complete with a selection of control loop, compensation, control and telemetry choices.

## **About AmP Adaptive Multi-Rail Power Platform**

The unique AmP Adaptive Multi-Rail Power Platforms deliver the best of analog and digital capabilities, that offer application targeted integration of multiple dissimilar power rails. The architecture includes:

- Power blocks with unique Scalable Integrated MOSFETS (SIM) including integrated current sense for protection and current share. Power Blocks are used to build power path topologies.
- Sensor blocks with integrated Adaptive digitizers, Comparators, Summation Amplifiers and Noise-Immune References. Sensor blocks are used to sense and manage analog voltage and current.

- Digital and analog fabric: Interconnects  $\mu$ Analog,  $\mu$ Logic, Precision Timers and Compensator RAMs
- Telemetry built-in I2C and SPI for device configuration

The family consists of nine members with three selections, four, eight and twelve power blocks of 1A, 3A and 6A current capacity each. Initially AmP8D1, AmP8D3 and AmP8D6 are available today with the rest of the family expected before year end.

### **About WebAmP Tools and AmPLink Adapter**

AnDAPT offers WebAmP licensable, cloud-based power design tools which are available complete with a power analysis tool suite. Also available is an AmPLink Adapter which connects a USB port to download a bit stream to personalize an AmP device as a user designed On-Demand power management unit.

### **Availability, Pricing and Packaging**

The product family is offered in QFN packages with 6x6, 7x7, 8x8 footprint sizes. Initial device AmP8DS6QF74 is available today, in a 74-pin, 8-mm-by-8-mm-by-0.85-mm thermally enhanced QFN package. The lowest cost member of the family AmP8DP1QN52 is priced at US \$3.75 in 1,000-unit quantities. WebAmP tools and power components can be licensed today online and are available for a 30-day free trial period.

### **About AnDAPT**

A privately held fabless Power semiconductor company, AnDAPT, Inc. designs, manufacturers and markets On-Demand Power Management solutions. Incorporated in 2014 and based in the Silicon Valley, the Company is funded by Intel, Cisco and Vanguard and has pioneered a new genre of adaptive analog technology. AnDAPT offers AmP™ Adaptive Multi-Rail Power Platforms, WebAmP™ cloud-based software tools and AmP Power Components targeting applications in Enterprise, Server/Client, Storage, Communications, IOT, Drones, Telematics, Medical and Industrial applications. Visit the [company website](#) or call for more information

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