



AnDAPT™, Inc.

Adaptive Analog

Frequently Asked Questions

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AnDAPT

Frequently Asked Questions

- Q. Why do people still use catalog power devices:
- A. Very flexible to fit all designs, unfortunately not good for managing power.

- Q. Why are PMICs not available for all boards:
- A. Lack of volume to amortize the high NRE.

- Q. What are the benefits of power management:
- A. Sequencing/shutting off rails, monitoring current/optimizing voltage scaling.

- Q. What does AnDAPT stand for: Adaptive Analog.
- A. We are an on-demand power management company.

- Q. What is on demand power management:
- A. Ability manage power by building a custom integrated multi-rail PMIC targeted to use application in days/weeks.

- Q. What is μ Analog:
- A. Digitally wrapped elementary analog building blocks.

- Q. What is unique about AnDAPT technology:
- A. It is a new technology utilizing digital interconnect (as chassis) and placing (μ Analog as body), a new genre of analog.

- Q. How does the technology work:
- A. μ Analog blocks are interconnected to build a variety of power rails by simple configuration of the digital interconnect.

- Q. What is AmP platform:
- A. Adaptive Multi-Rail Power or AmP platform are un-configured (if I may blank) analog ICs which once configured become custom PMICs with user selected power rails.

- Q. How does a user use this new technology:
- A. Step 1. Launch our web application (we call it WebAmP) on a Chrome browser, drag & drop their application specific power rail on to their chosen AmP platform IC. Step 2. Once complete download the bitstream to the platform IC which is personalized to your custom PMIC.

Frequently Asked Questions

- Q. What kind of power rails can a customer build:
- A. Switching rails PWM buck, boost, buck-boost, hysteretic, linear LDOs, Load switches, Multi-phase regulators/controllers and many more.
- Q. What is a power components:
- A. For us power components are software based IP which full functionality analog regulators built out of interconnected μ Analog. For a customer they are equivalent to catalog power components, but in our case can be integrated on our AmP platform ICs.
- Q. What power components are already available:
- A. We have started with our Pro series of Synchronous Buck, Asynchronous Buck, LDO, Load switch, and a Sequencer. These be followed by our I2C series and DVS series equivalent power components in Q1 and Q2 respectively.
- Q. What is telemetry and what are the choices for customers:
- A. They can choose I2C or DVS and monitor and control power rails for current and voltages.
- Q. What is the the efficiency of your rails:
- A. Switching rails 5 to 3.3 v can have 95% peak efficiency. We use DMOS with 75+ nano-Coulomb times milliOhm which is one of the best figures of merit.
- Q. Can you add digital functions to the AmP platforms:
- A. Yes absolutely since it is a mixed-signal platform and can accommodate many power related digital functions such as telemetry, sequencers, supervisors, watch dog timers, switch debuggers and many more.
- Q. Who's is your foundry and what process geometry do you use:
- A. We use 110nm leading edge standard BCD process at Vanguard International a leading power process vendor.
- Q. When will these devices be available:
- A. The samples are available now along with evaluation boards and USB adapters directly from our website. Also the web tools are accessible from most browsers directly already.