

Power Components for Drag & Drop

AnDAPT offers a broad selection of Power Components for the AmP family, with competitive figures of merit that replace hundreds of traditional catalog parts and point-of-load (POL) regulators. Consequently, AmP platform devices help reduce inventory costs and operating expenses.

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.

The library, shown in the List of Power Components Table (next page) includes a variety of prebuilt, proven Power Components

- Regulator topologies: Buck, Boost, Buck-Boost regulators, Synchronous or asynchronous, Single or multi-phase
- Linear topologies: LDOs with source-side, drain-side and push-pull (DDR)regulation; Load Switch
- Controller topologies: Buck, Synchronous, Single or multi-phase, External MOSFET or DrMOS

- Mixed topologies: Battery chargers, H-bridges
- Supervisory functions: Sequencers, Fault Managers, Timers

Users simply drag-and-drop a component from the library onto the selected platform.

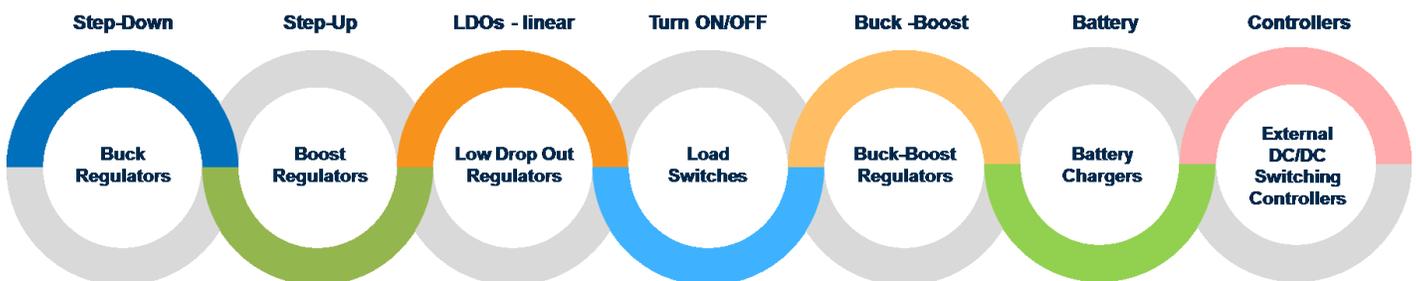
Each Power Component includes features defined via on-screen options which enables the user to optimize the component to the application need.

Power Component Advantages

The key advantages of AmP Power Components include the following.

- Mix-and-match Power Components to meet the various and differing power requirements of your system.
- Integrate multiple, dissimilar power rails to consolidate parts count, reduce board area, simplify sourcing, and reduce inventory requirements.
- Simplify sequencing and control of multiple power rails.
- Add monitoring and reset controls.
- Tailor a Power Component with the exact features and unique specifications required in your design.

*Power Components for Drag & Drop
Web Tool to Select, Integrate & Analyze Power Components*



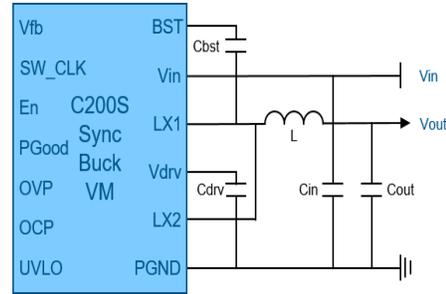
Selecting a Power Component

As shown in the List of Power Components Table, Power Components come with different topologies and capabilities. Across a table row, the Power Components are compatible in power path performance, yet have increasing capabilities for control, monitoring and telemetry.

Pro Series Power Components include the standard features that one expects in similar stand-alone devices, plus some additional capabilities, where applicable, such as ...

- Adjustable switching frequency
- Adaptable stability, bandwidth, gain and phase margin
- Internally adjustable soft start and stop
- Adjustable protections: Undervoltage lockout (UVLO), overcurrent (OCP), overvoltage (OVP), and over-temperature (OTP)

Example Schematic symbol for Power Components



List of Power Components Table

CATEGORY	FUNCTION	PRO SERIES	I2C SERIES	DVS SERIES	DESCRIPTION
PWM Switching Regulator Integrated Switch	PWM Sync Buck CM	C100	I100	P100	SyncPWM Current Mode
	PWM Sync Buck VM	C200	I200	P200	SyncPWM Voltage Mode
	PWM Sync Buck VM HC	C210S	I210S	P210S	SyncPWM Voltage Mode, High Current 1 Hi, 2 Lo
	PWM Async Buck VM	C250S	I250S	P250S	AsyncPWM Voltage Mode
	PWM Async Boost VM	C350S	I350S	P350S	AsyncPWM Voltage Mode
Multiphase-PWM Switching Regulator Integrated Switch	PWMMultiPhBuck CM	C510	I510	P510	SyncPWM Current Mode Multi-Phase
	PWM MultiPh Buck VM	C520	I520	P520	SyncPWM Voltage Mode Multi-Phase
PWM Buck-Boost	PWM Sync Buck-Boost VM	C550	I550	P550	Sync PWM Voltage Mode
Linear Regulator	LDO-SSR	C710S	I710S	P710S	CVSource Side Regulation
	LDO-DSR	C720S			CVDrain Side Regulation
	LDO-DDR	C730			CV Push-Pull for DDR RAM
Load Switch	Load Switch	C750S	I750S	P750S	Slew Rate Controlled, Current Limit
Hysteretic Regulators	Hysteretic Buck COT	C620			Hysteretic COT SyncRegulator
Controller-Switch Controller-DrMOS	PWM Buck	C800	I800	P800	SyncPWM Voltage Mode External Switch
	PWM Buck DrMOS	C850	I850	P850	SyncPWM Voltage Mode ExternalDrMOS
Battery Charger	BatteryCharger	C900			Switchingcharger- trickle,LDO, Reverse protection
Supervisor	Sequencer	C410			Sequencer
	Reset Generator	C450			Reset Generator
	Push-button Controller	C460			Push-button Controller
	FaultManager	C430			FaultManager