

Features

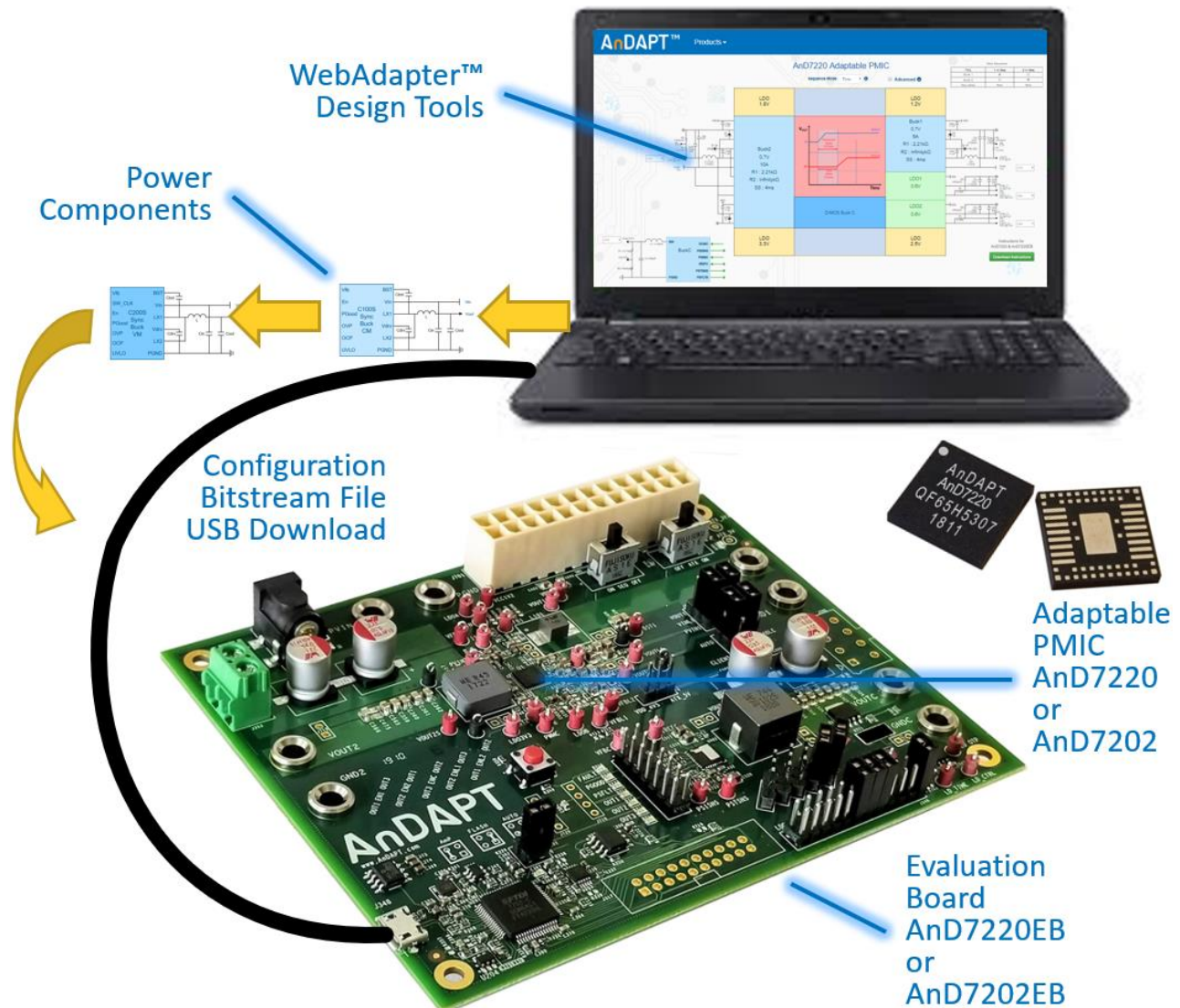
- Demonstrates AnD7220 or AnD7202 Adaptable PMIC:
 - One DrMOS Buck Regulator
 - One 10A Synchronous Buck Regulator
 - One 6A Synchronous Buck Regulator
 - Two LDOs (AnD7220) or two Load Switches (AnD7202)
 - Four 0.2A auxiliary LDOs: 1.2V, 1.8V, 2.5V, 3.3V
 - Sequencing
- WebAdapter™ or WebAmP™ Tool Downloads Configuration Files:
 - .HAX file to configure the device directly
 - .HEX file (Intel HEX) to program on-board flash

Description

The AnD7220EB and AnD7202EB are ready to use Evaluation Boards to evaluate the Dual-Buck AnD7220 and AnD7202 PMICs. Simply apply PV_{IN} , then measure default settings of 0.7V on the V_{OUT} terminals. To change V_{OUT} , adjust the resistor divider ratio according to: $R2 = V_{fb} * R1 / (V_{OUT} - V_{fb})$ kΩ, or use the WebAdapter tool and select your desired V_{OUT} . The tool reports will provide the resistor required location and value. To access the WebAdapter tool, please use the following link: <https://webadaptor.andapt.com/apmic>

Optionally, the Bucks may be modified as needed by the WebAdapter design tool and downloaded over the USB cable. The .HAX file downloads to the AnD82XX Adaptable PMIC while the .HEX file downloads to the flash memory. Functionality may be extended using On-Demand WebAmP tools. For additional information, please check the following link: <https://www.andapt.com/docs>

Application of Evaluation Board



Getting Started: Power Up

Step 1. Set jumpers to the default FLASH-to-PMIC and PMIC-is-MASTER configurations highlighted in green on the Jumper Selection Table. Set switch SW1 UP (off) as shown below.

Step 2. Connect 12V power supply to PV_{IN} Plug.

Step 3. Turn ON board by switching SW1 DOWN (on).

Step 4. Measure buck output voltages on the V_{OUT} terminals. (7V default).

To change parameters:

Step 5. Open [WebAdapter](#) tool from AnDAPT web site

Step 6. Modify buck output voltages on V_{OUT1} and V_{OUT4} using WebAdapter Download Instructions

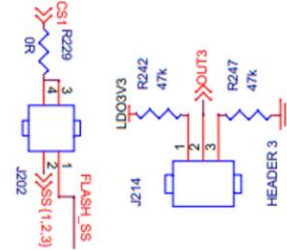
Step 7. Modify buck sequences using using WebAdapter Download Instructions

Jumper Selection Table for J202 and J214

Function	Header	Jumper	Operation
Chip Select	J202	2-4	USB to PMIC
		1-3	USB to FLASH
		1-2	FLASH to PMIC*
Mode	J214	1-2	PMIC is MASTER*
		2-3	PMIC is SLAVE

*for FLASH to AmP, use AmP is MASTER

Schematic view of Jumper Pins



PMIC Power Up Jumper and Switch Settings

