



4.7V to 18V Input, 5A Synchronous Buck Regulators with AOT Control

EVAL Kit Physical Contents

Item #	Description	Included	Download
1	KTB8372 EVAL fully assembled PCB in Anti-static bag	1	
2	Hard copy of Quick Start Guide, 1 page (A4 or US Letter)	1	
3	EVAL Kit box	1	
4	EVAL Kit Manual, available at clickable URL		1

QR Links for Documents

IC Landing Page	EVAL Kit Landing Page
 https://www.kinet-ic.com/ktb8372/	 https://www.kinet-ic.com/ktb8372ceufa-5c-mmev01/

User-Supplied Equipment

Required Equipment

1. Bench Power Supply for VIN – 20V and 5A as needed for the intended application.
2. Digital Multimeter – used to measure input/output voltages and currents.
3. Load – either power resistors, an E-Load, or an actual system load.

Quick Start Procedures

1. EVAL Kit Landing page (<https://www.kinet-ic.com/KTB8372CEUFA-5C-MMEV01/>).
2. Check the Jumpers for default setting.
3. Connect one pair of power cables to the connector of EVAL Kit at VIN and GND.
4. Before connecting the EVAL Kit to the VIN bench supply, turn on the supply and adjust the voltage as close to 0V as possible. Then turn off the supply. While off, connect the power cables ends to the VIN bench supply.
5. Turn on the VIN bench supply and very slowly ramp its voltage to an appropriate voltage, such as 12V. While ramping VIN slowly, use the bench supply's output current indication (or a digital multimeter) to monitor the VIN current. If the current becomes high, reduce the VIN voltage quickly to prevent damage. Then inspect the setup for any wiring errors.
6. To hardware shutdown the buck regulator, simply use a jumper at P1 to connect EN to GND.
7. Connect a voltage meter to the output KVOUT and KGND test pins, it should measure 1.8V.