



*Advanced  
Innovation  
Technology*

AiT SEMi is a leading IC Design and Manufacturing Company, Since 2004, ISO9001 & ISO14001 certificated. Design for Power Management, Discrete and Memory ICs.

AiT SEMi has own passive manufactures – Inductor, Crystal & Fuse to provide Total-Solution to shorten customer's design cycle.

Being worldwide branding company's partner in Automotive, Industrial, Consumer, Medical, Lighting, Telecom, IoT, Home Appliance etc.

## AiT SEMi Product Family

### POWER MANAGEMENT IC



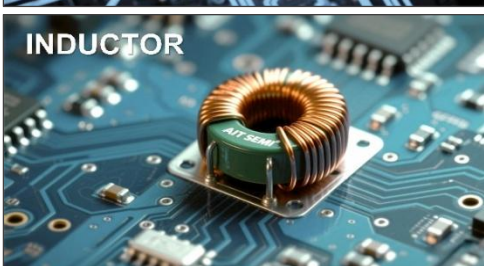
### DISCRETE



### MEMORY



### INDUCTOR



### CRYSTAL



### FUSE



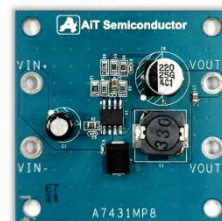
## Focus Application



## Total - Solution

### A7431

DC-DC CONVERTER BUCK (STEP-DOWN) 42V 3A CC/CV



#### 【FEATURES】

- 42V Input Voltage Surge
- 36V Steady State Operation
- Up to 3A Output Current
- Output Voltage up to 12V
- 125kHz Switching Frequency
- Up to 91% Efficiency
- Available in PSOP8 Package

#### 【APPLICATION】

- Car Charger/ Adaptor
- Rechargeable Portable Devices
- General-Purpose CC/CV Supply

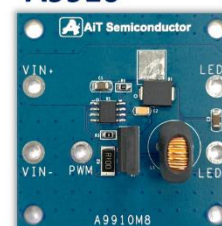
#### 【AiT Opportunity】

- DC-DC : A7431MP8VR
- Inductor : WSL12050-470M  
WSG12060-470M
- Discrete : SM540C



### A9910

AC-DC LED DRIVER UNIVERSAL HIGH BRIGHTNESS



#### 【FEATURES】

- 10V to 600V input range
- >90% efficiency
- Constant-current LED driver
- Linear and PWM dimming capability
- Input voltage surge ratings up to 600V
- Available in SOP8 Package

#### 【APPLICATION】

- DC/DC or AC/DC LED driver applications
- RGB backlighting LED driver
- Signage and decorative LED lighting

#### 【AiT Opportunity】

- DC-DC : A9910M8VR
- MOSFET : AM10N65T3
- Discrete : S3KBF or S10SC650V





## AiT SEMi Product Portfolio

### POWER MANAGEMENT IC

- AC DC PWM Converter
- DC-DC Converter ( Boost | Buck )
- Regulator ( CMOS | Bipolar LDO | Linear | Shunt Regulator )
- Gate Driver ( IGBT | MOS )
- LED Driver ( AC-DC | Lighting | Backlight | OLED )
- Motor Driver
- Touch Screen Driver
- Amplifier ( Audio | OP Amp | Comparator )
- Battery Management ( Battery Charger | Battery Protection )
- Switch ( Analog | Power )
- Hall Sensor
- Interface ( RS-232 | RS-485 )
- Logic & Level Shift
- Reset IC ( Supervisor )
- IGBT
- MOSFET ( LV | HV | Super Junction | SGT | SiC )

### DISCRETE

- Diodes ( Switching | Schottky | Zener | Rectifier )
- Protection Device ( TVS | ESD )
- Transistor ( General Purpose | Switching | Bias Resistor | Field-Effect )
- Bridge Rectifier

### MEMORY

- EEPROM I<sup>2</sup>C | SPI BUS
- Nor Flash

### INDUCTOR

- Chip Inductor
- Common Mode Choke
- Multilayer Chip Bead ( Ferrite Bead )
- Power Inductor
- Wire Wound / Molding Type
- Through Hole Power Choke

### CRYSTAL

- Crystal Components ( Through Hole | SMD )
- Oscillator ( CMOS Output | Differential Output )
- Ceramic Resonator
- TCXO | VCXO | OCXO

### FUSE

- SMD PPTC Resettable
- SMD Lo Rho PPTC
- Radial Leaded PTC

Distributor Information:

