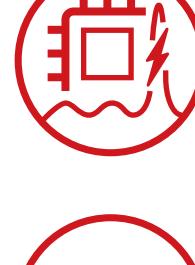


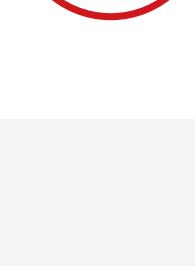
# HotSwitch®

A portfolio of integrated devices for system protection  
against transient and steady-state fault conditions

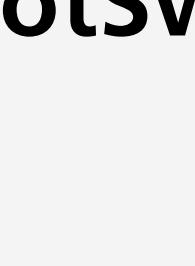
## PRODUCT HIGHLIGHTS



HotSwitch is an integrated protection circuit with MOSFETs that can replace conventional fuses and other protection devices



Connected in series to the main power rail of the circuit, HotSwitch can detect the overcurrent conditions and protect the load by disconnecting it from the source



Incorporates overvoltage, short circuit, inrush current, and thermal shutdown protection features (depending on application)



Embedded IEC 61000-4-2 compliant ESD protection and IEC 61000-4-5 compliant surge protection available in several HotSwitch products

**HotSwitch =**

**Load Switch**

Load distribution, timing and management

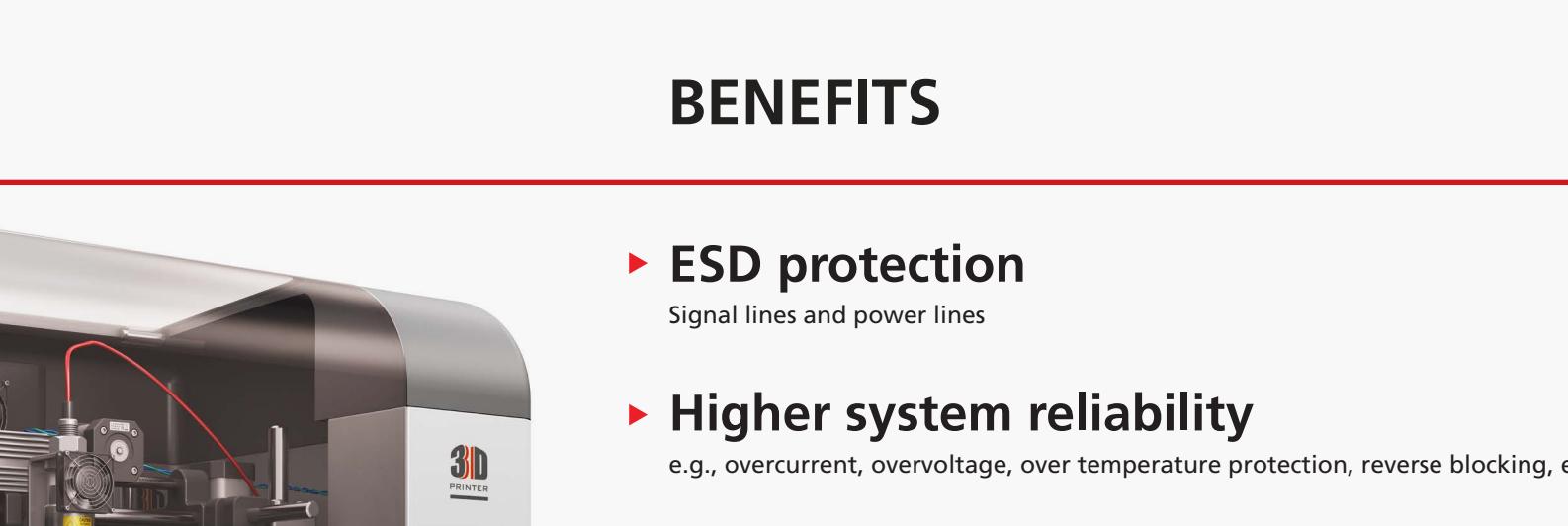
**eFuse**

Input/output current/voltage protection at longer time scale  
> micro seconds

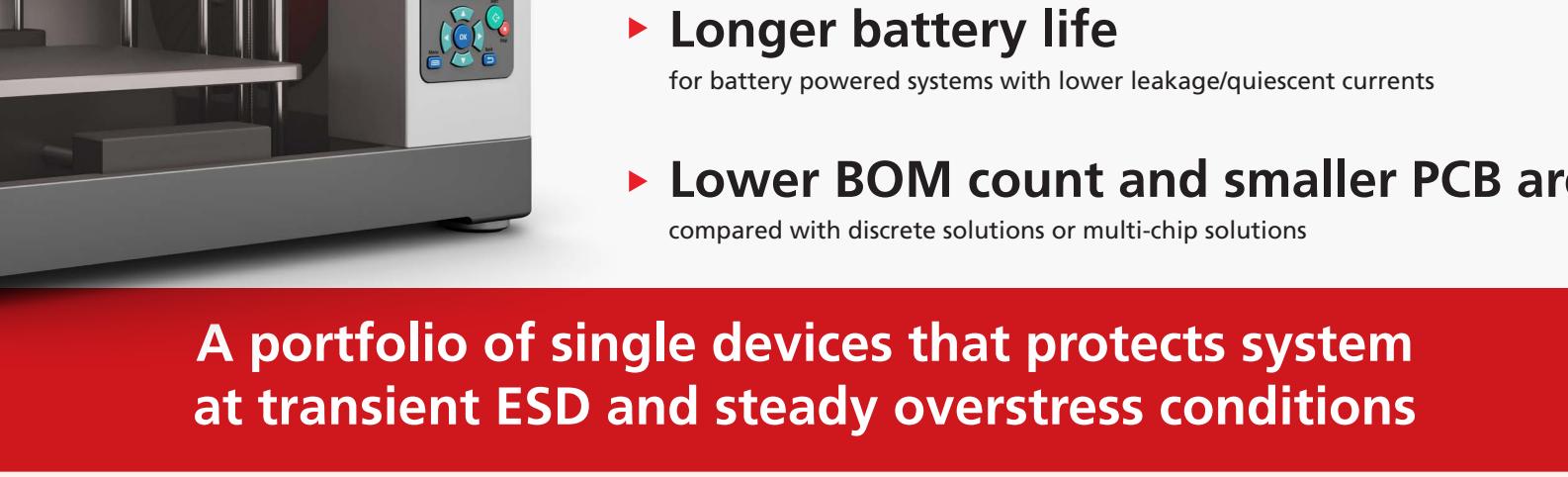
**ESD/Surge Protection**

Input/output terminals and system protection at shorter time scale  
ns-ms

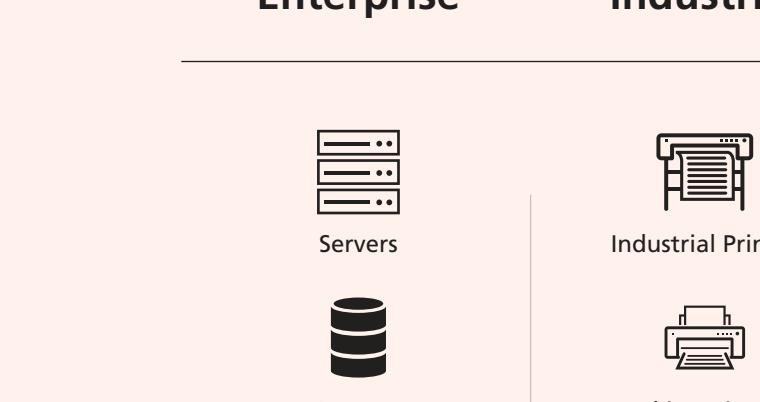
## REVOLUTIONARY SYSTEM PROTECTION



V.S.



## BENEFITS



### ► ESD protection

Signal lines and power lines

### ► Higher system reliability

e.g., overcurrent, overvoltage, over temperature protection, reverse blocking, etc.

### ► Better system dynamic behavior

e.g., limited inrush current, proper loading sequence, less disturbance on system power line, less interference among loads, etc.

### ► Longer battery life

for battery powered systems with lower leakage/quiescent currents

### ► Lower BOM count and smaller PCB area

compared with discrete solutions or multi-chip solutions

**A portfolio of single devices that protects system at transient ESD and steady overstress conditions**

## APPLICATIONS OF HotSwitch®

### Enterprise



### Industrial



### Appliances



### Motor



### Consumer



and more...

For more information

Visit [semtech.com/HotSwitch](http://semtech.com/HotSwitch)

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