

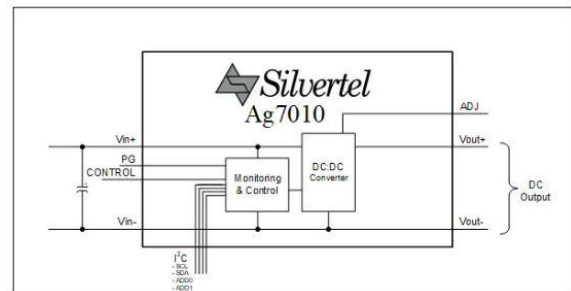
# Achieve 97% Efficiency with Silvertel's Ag7010

High Power PoL DC/DC Module

Founded in 1997, Silvertel is based out of the UK and is an industry-leading supplier for IoT and smart solutions. Silvertel's innovative portfolio includes a wide range of products like Power over Ethernet (PoE) modules, LED driver modules, DC/DC converters, and battery charging controllers that support applications in connected devices, commercial electronic products, security systems, telecoms, and more. Their recently released [Ag7010](#) High Efficiency Point of Load (PoL) Buck Converter Module (**Figure 1**) operates over a broad input voltage range and can achieve greater than 97% efficiency. Additionally, Silvertel supplies the [EvalAg7010](#) evaluation board to support simple testing and evaluation of the Ag7010.

## Ag7010 Key Features

- >97% efficient DC/DC converter
- PMBus enabled
- Wide input voltage range 8V-24V
- 3V-12.7V output voltage
- Very low heat output
- Low output ripple & noise
- Configurable UVLO, OVLO
- Overload, Short-circuit, & thermal protection
- Low profile SMT package size – 37.4mm (L) x 14.4mm (H)
- Minimal external components required



**Figure 1:** Silvertel's Ag7010 Block Diagram  
Source: [Silvertel](#)

## Ag7010 Applications

As a next-generation low noise DC/DC buck converter with integrated PMBus commands through I<sup>2</sup>C, the Ag7010 is an ideal solution in a wide variety of USB-C converter applications including:

- USB Powered Devices (PD)
- Apple Lightning
- Intel Thunderbolt
- Distributed Power Systems



[Learn More](#)

## Developing with Silvertel's EvalAg7010

Silvertel's EvalAg7010 is an ideal solution for convenient testing and evaluation of their Ag7010 High Power PoL DC/DC module. The EvalAg7010 can be supplied via banana connectors or USB-C to J1, J2 & 3, or J8 respectively. The EvalAg7010 provides outputs to base wire or banana connectors, J4, or J5 & 6.

The EvalAg7010 kit contains:

- EvalAg7010 Evaluation Board
- Ag7010 soldered to Evaluation board
- I<sup>2</sup>C Controller
- USB-C Source



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