

- **IEEE802.3bt compliant**
- **Type 3 Class 6 PoE PD**
- **Compact DIL package** - 51mm(L) x 30mm(W)
- **Overload, thermal & short-circuit protection**
- **Input voltage range (44-57V)**
- **User-configurable constant current output from 350mA-1000mA**
- **Separate auxiliary DC user-configurable output**
- **High efficiency DC/DC conversion**
- **1-10V Analogue dimming control**
- **Integral I<sup>2</sup>C Control**
- **Simple integration**
- **Minimal (low cost) external components required**

Silvertel's Ag210 IEEE compliant PD module is designed to combine high power LED lighting applications with PoE connectivity. Conforming to the latest IEEE802.3bt Power-over-Ethernet (PoE) standard the module provides an easily implemented solution for Designers/Integrators of LED lighting systems. The Ag210 is pre-configured as a Type 3 Class 6 PD device and capable of extracting a minimum of 40W (measured at the module output) from the PSE.

Available as a DIL package, the module provides ease of integration using minimal external low cost components. Ag210 accepts power from all four pairs of the Cat 5e/6a Ethernet cable. An integrated, high efficiency DC/DC converter provides a regulated output with built-in protection against overload and short-circuit.

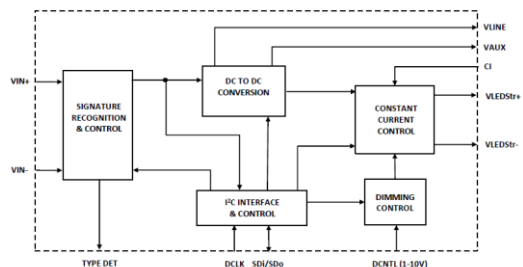
The Ag210 provides signature and control circuitry to provide full backwards compatibility with existing PoE and PoE+ standards (IEEE802.3af & .at).

The Ag210 also provides a user-configurable auxiliary DC output and in addition provides access to the incoming DC line voltage.

The Ag210 incorporates a simple-to-use I<sup>2</sup>C interface allowing users access to programmable lighting features.

The Ag210 is designed to be used in lighting applications and requires installation into a fully isolated enclosure (eg, a light fitting) in order to comply with IEEE802.3bt for input/output isolation.

The Ag210 is a compact module for high power LED lighting applications. Ease of integration and its simplicity to program makes this module an ideal choice for designers and system integrators looking to get the most out of their LED lighting solution.



Ag210 – Block Diagram