



- **Cost optimised 85W POE PD**
- **IEEE802.3bt (Draft) compliant**
- **Power received on all 4 pairs**
- **Compact DIL package**
- **Overload, thermal & short-circuit protection**
- **Very low power standby mode**
- **Wide input voltage range (37-57V)**
- **12V or 24 V output**
- **1500V isolation (input to output)**
- **89% efficient including integral DC/DC converter**
- **Minimal (low cost) external components required**
- **Simple integration**

Silvertel's Ag5800 IEEE (draft) compliant PD module is designed for high power POE applications. Conforming to the latest IEEE802.3bt (Draft) Power-over-Ethernet (PoE) standard. Depending on cable length it can output up to 85W when supplied from an IEEE802.3bt PSE. This total solution includes 1.5kV of isolation, PoE signature and an integral DC to DC converter for 12 or 24V output.

A DIL package module that is easy to integrate provides a simple PoE solution using minimal external low cost

components. Ag5800 accepts power from all four pairs of the Ethernet cable. An integrated high efficiency (up to 89%), cost optimised DC/DC converter operates over a wide input voltage range to provide a regulated output. Built-in protection against overloads and short-circuits is also included. Output voltage can be 12 or 24V. This is also adjustable using a simple pull up/down resistor.

The Ag5800 provides signature and control circuitry to give full backwards PoE standards compatibility. A signature is needed by the Power Sourcing Equipment (PSE) before it will provide power to the port.

Ag5800 is an ideal, compact and low cost effective solution for high power POE for any application, e.g. PTZ IP cameras, LED lighting, door access systems, intelligent displays and sensors, monitors and projectors. Easy to design & integrate Ideal for use with Silvertel's complementary Ag6800 PSE.

