



- **Smallest package size to date:**
SMT-28mm(L)x17.8mm(W)x12mm(H)
- **Cost optimised IEEE802.3af POE**
- **Industrial temperature option**
- **Overload and short-circuit protection**
- **Wide input voltage range**
- **12W at 12V output**
- **1500V isolation (input to output)**
- **Integral DC/DC converter**
- **Simple integration**

Silvertel's Ag9800 series are small package PD modules that still offer the full features required to extract power from a conventional twisted pair Category 5 Ethernet cable. These modules fully conform to the 802.3af Power-over-Ethernet (PoE) standard. This total solution includes 1.5kV isolation, PoE signature and integral DC to DC converter. The module provides a Class 0 signature.

The modules provide a simple PoE solution using minimal extra low cost components. Ag9800 will accept power from either the spare or data pair of the Ethernet cable, enabling the device to be powered from mid- or end-span PSE.

The integrated optimised DC/DC converter operates over a wide input voltage range providing a high efficiency (up to 87%) regulated output. In addition it provides built-in protection against overloads and short-circuits. The 12V output is easily adjustable using a simple pull up/down resistor.

The Ag9800 provides signature and control circuitry to give full PoE compatibility. This signature is required by the Power Sourcing Equipment (PSE) before it will provide power to the port.

There is an industrial temperature option available with an operating range of -40°C to +85°C. Future options will include SIL modules and 3.3V or 5V outputs.

Silvertel's Ag9800 is ideally suited as a cost effective solution for POE for any Ethernet applications e.g. IP cameras, VoIP telephones, WAPs and door access.

