Ag9800

Miniature module for the Powered Device (PD)

- **Smallest package size to date:** SMT-28mm(L)x17.8mm(W)x12mm(H)
- **Cost optimised IEEE802.3af POE**
- **Overload and short-circuit protection**
- **Over temperature protection option**
- **Wide input voltage range**
- **Power output-12W at 12V, 9W at 5V or 6W at 3.3V**
- **1500V isolation (input to output)**
- **Integral DC/DC converter**
- **Simple integration**

Silvertel's Ag9800 series PD modules still offer all the features required to extract power from a conventional twisted pair Category 5 Ethernet cable, in the smallest package size available. The modules fully conform to the 802.3af Power-over-Ethernet (PoE) standard and include 1.5kV isolation, PoE signature and integral DC to DC converter. The modules provide a Class 0 signature.

The modules offer 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. This is connected through external bridge rectifiers, 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 DC output nominal voltage is easily adjusted 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.

The Ag9800MT variant provides over temperature protection. The module reduces the output power if the maximum operating temperature is exceeded and then returns to normal on returning to normal operating temperature.

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. Its minimal footprint makes it perfect for any space or height constrained designs.