



- **POE+ PD module compliant with IEEE 802.3af & IEEE802.3at**
- **Class 4, 24W Continuous Output Power (30W Peak Power)**
- **High efficiency DC/DC converter (90% typ.)**
- **12V (Ag53012) or 24V (Ag53024) output voltage**
- **Space-efficient package/format SIL - 57mm(L) x18mm(W) x14mm(H)**
- **Adjustable output voltage**
- **1500V isolation (input to output)**
- **Overload, thermal and short-circuit protection**
- **Designed and Manufactured in the UK**

Silvertel's' Ag53000 is a Single-in-Line (SIL) PoE+ module delivering up to 30 Watts of output power - requiring less than 10.3cm² of PCB space. This is ideal for any application where space is at a premium, such as IP Telephones, Wireless Access Points, PTZ camera, Door Entry system, IoT devices and remote computer terminals applications.

The Ag53000 is compatible with both the IEEE802.3af and IEEE802.3at standards. Identifying as a Class 4 PD,

the module works with both types of Power Sourcing Equipment (PSE) units - mid-span and end-span injectors. The high efficiency DC/DC converter operates over 37V to 57V input voltage range to provide a regulated low ripple, low noise output. The module provides built-in overload, thermal and short-circuit output protection. The module will also provide feedback of the connected PSE type via the Type 2 Detection Flag output.

Output voltage variants are available with 12V or 24V, with the ability to adjust this output up or down.

The Ag53000 includes 1500V safety isolation complying with IEEE802.3 and to help prevent earth loops.

The Ag53000 is rated for -40°C to +85°C operation and is designed for simple integration, requiring the addition of just a few low-cost components (two diode bridges and an electrolytic capacitor on the output).

