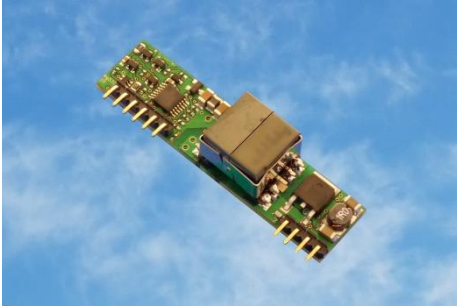


# Ag5305

V1.0  
February 2019

## SIL Package High Power Over Ethernet Module (PoE+) 5V output



- **Smallest package size to date:**  
SIL - 57mm(L)x18mm(W)x14mm(H)
- **POE + module compliant with IEEE 802.3af & at**
- **Up to 25 Watt Output Power @ 5V**
- **High efficiency DC/DC converter**
- **Adjustable output voltage**
- **1500V isolation (input to output)**
- **Input voltage range 37V to 57V**
- **Minimal low cost external components required**
- **Overload, thermal and short-circuit protection**
- **Simple integration**

Silvertel's Ag5305 is the first PoE+ module delivering up to 25 Watts of output power at 5V that requires less than 10.3cm<sup>2</sup> of PCB space. This is ideal for any applications where space is at a premium, such as SBCs, IP Telephones, Wireless Access Points, PTZ cameras, door entry systems and remote computer terminal applications.

Ag5305 is compatible with both the IEEE 802.3af and 802.3at standards for

signature recognition. The Ag5305 classification is fixed at Class 4. 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 a wide 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 output voltage is programmable for values between 4.5V and 5.5V.

Ag5305 includes 1500V safety isolation as required by IEEE802.3 and to help prevent earth loops.

The module is designed for simple integration, requiring the addition of just a few low cost components (two diode bridges and an electrolytic capacitor on the DC output).

