Ag5810

IEEE 802.3.bt High Power 4 Pair PoE Module

The Ag5810 is a DIL package module that is easy to integrate and provides a simple PoE solution using just three external low cost components. The module is pin compatible with the older non IEEE UPoE module, the Ag5510. The Ag5810 accepts power from all four pairs of the Ethernet cable and an integrated high efficiency (up to 88%), cost optimised DC/DC converter operates over a wide input voltage range to provide a regulated output. This output voltage can be 12V or 24V and is adjustable using a simple pull up/down resistor. Built-in protection against overloads, short-circuits and over temperature is also included.

Ag5810 is an ideal IEEE802.3bt compliant, compact and low cost solution for high power POE for any application, e.g. PTZ IP cameras, AI systems, 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.

- **IEEE802.3bt compliant PoE PD**
- **Type 4 Class 7 signature**
- **60W max output**
- **Power received on all 4 pairs**
- **Compact DIL package -** 70mm(L) x 30mm(W) x 16 mm(H)
- **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)**
- **88% efficient including integral DC/DC converter**
- **Minimal (low cost) external components required**
- **Simple integration**

Silvertel's Ag5810 IEEE compliant PD module is designed for products requiring more power than the IEEE802.3at standard will supply. Conforming to the latest IEEE802.3bt Power-over-Ethernet (PoE) standard the Ag5810 will provide Type 4 Class 7 signature and depending on cable length it can output up to 60W 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.

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