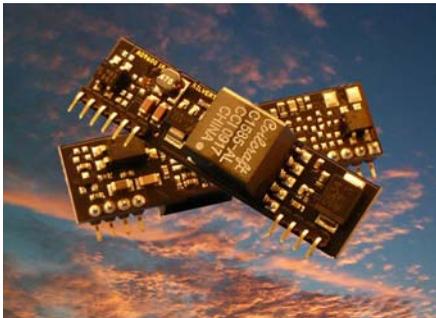


# Ag9600

V1.2  
October 09

Low Cost PoE module for the PD



- **IEEE802.3af compliant**
- **Small Package** – 56mm(L) x 18mm(W) x 14mm(H)
- **Integral DC/DC converter**
- **Wide Input voltage range**
- **Overload and short-circuit protection**
- **Adjustable Output**
- **1500V isolation (input to output)**
- **Simple integration**

The Ag9600 is a cost reduced series of modules that are designed to extract power from a conventional twisted pair Category 5 Ethernet cable. These modules conform to the IEEE 802.3af Power-over-Ethernet (PoE) standard. This is a total solution which includes 1.5kV isolation, PoE signature and our own DC to DC converter design. The unit provides a Class 0 signature.

IEEE 802.3af allows for two power options for Category 5 cables. The application diagram shows how power can be used from either the spare or the data pair. This means that the device can be powered from a mid-span or end-span PSE when using the Ag9600 series.

The integrated DC/DC converter has been designed specifically to operate over a wide input voltage range and provides a regulated output. The DC/DC converter also has built-in overload and short-circuit output protection. There are three output voltage options for 3.3, 5 and 12V nominal. This voltage can be adjusted using a simple resistor pull up / down.

The Ag9600 has versions with and without diode bridges but all provide signature and control circuit to give the PoE compatibility. This signature is required by the Power Sourcing Equipment (PSE) before it provides the power to the port.

The module provides a simple PoE solution which only requires a couple of extra low cost components.

The Ag9600 is ideal as a cost effective solution for high volume IP cameras and VoIP telephone manufacturers.

