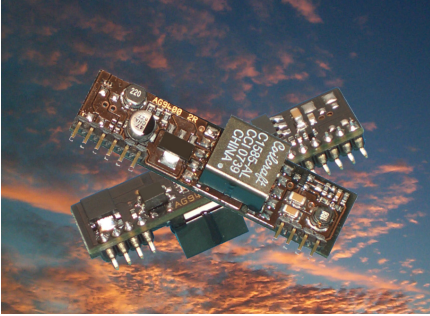


Ag9400

V2.1
March 09

Low Cost PoE module for the PD



- **IEEE802.3af compliant**
- **Small Footprint** - 56mm x 18mm
- **Highly efficient DC/DC converter**
- **Low output ripple and noise**
- **Wide Input voltage range**
- **Overload and short-circuit protection**
- **Adjustable Output**
- **1500V isolation (input to output)**
- **Simple integration**

The Ag9400 is a cost reduced series of modules that are designed to extract power from a conventional twisted pair Category 5 Ethernet cable. These modules still provide exceptional efficiency while conforming to the IEEE 802.3af Power-over-Ethernet(PoE) standard. This is a total solution which includes 1.5kV isolation, signature and our own high efficiency 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 this can be easily implemented with the Ag9400 series.

The high efficiency DC/DC converter has been designed specifically to operate over a wide input voltage range and provides a regulated low ripple and low noise output. The DC/DC converter also has built-in overload and short-circuit output protection.

The Ag9400 signature and control circuit provides the PoE compatibility signature and power classification. This is required by the Power Sourcing Equipment (PSE) before it provides the power to the port.

The Ag9400 aimed as a cost effective solution for high volume IP cameras, VoIP phones manufacturers.

