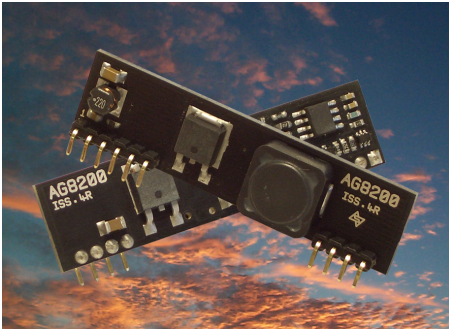


# Ag8200

V1.1  
March 09

High Efficiency PoE module for the PD



- **IEEE802.3af compliant**
- **Small Footprint** - 56mm x 10mm
- **Highly efficient DC/DC converter** (up to 87% ~ 12V 12W)
- **Low output ripple and noise**
- **Wide Input voltage range**
- **Overload and short-circuit protection**
- **Adjustable Output**
- **Simple integration**

The Ag8200 series of modules are designed to extract power from a conventional twisted pair Category 5 Ethernet cable. These modules provide exceptional efficiency while conforming to the IEEE 802.3af Power-over-Ethernet(PoE) standard. This is a total solution which includes PoE signature, class programming and our own high efficiency DC to DC converter design. This unit is recommended for products that use their enclosure to provide the 1.5kV isolation that is required in the IEEE 802.3af standard.

IEEE 802.3af allows for two power options for Category 5 cables. The

application diagram shows how this can be easily implemented with the Ag8200 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 Ag8200 signature and control circuit provides the PoE compatibility signature and power classification. This is required by the Power Sourcing Equipment (PSE) before it provides up to 15.4W of power to the port.

The Ag8200 is compatible with Class 0 to Class 3 equipment. This makes it a great 'Drop in Solution' for IP cameras, VoIP phones, biometric scanners and most IP devices.

