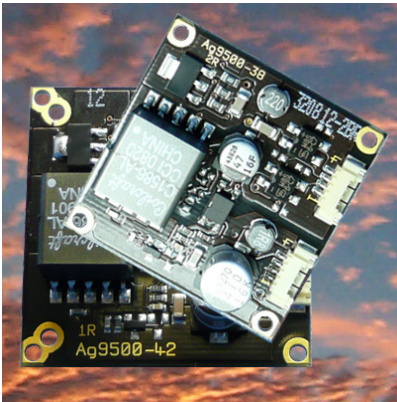


# Ag9512

V2.3  
March 09

Low Cost PoE module for IP camera applications



- **IEEE802.3af compliant**
- **Camera Size Footprint –**  
38mm x 38mm or  
42mm x 42mm
- **Low output ripple and noise**
- **Short-circuit protection**
- **12V, 1A Output supply**
- **Input for Auxiliary 12V supply**
- **1500V isolation (input to output)**
- **Simple integration – Plug & Play**

Ag9512 is a self-contained module for providing power to an IP camera. This module is available in two size versions, 42mm and 38mm square, to match standard camera formats. It is designed to extract power from a conventional twisted pair Category 5 Ethernet cable, conforming to the IEEE 802.3af Power-over-Ethernet (PoE) standard.

It is designed in a format that is standard for IP cameras, including box cameras and dome cameras. The

signature and control circuit provides the PoE compatibility signature and power classification required by the Power Sourcing Equipment (PSE) before applying up to 15W power to the port. The Ag9512 provides a Class 0 signature.

The DC/DC converter operates over a wide input voltage range and provides a regulated 12VDC output. The DC/DC converter also has built-in short-circuit output protection.

There is provision to provide an external 12VDC back-up input, which is used to power the host camera, when PoE is not present on the input Cat.5 cable.

Ag9512 is designed as a power supply unit that can easily be added to existing camera designs.

