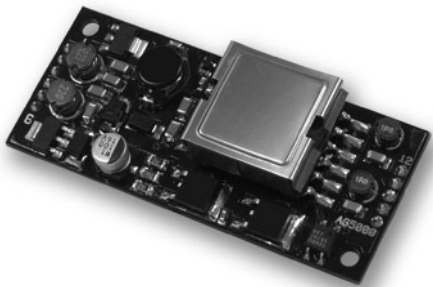




# Ag5000

## Power-Over-Ethernet Module



### 1. Features

- Maximum 30 Watt Output Power
- Dynamic input power sharing
- High efficiency DC/DC converter
- Wide adjustable output voltage range, to support trickle charge circuit
- 1500V isolation (input to output)
- Input voltage range 36V to 57V
- IEEE802.3af compliant inputs
- Low output ripple and noise
- Minimal (low cost) external components required
- Overload, thermal and short-circuit protection
- Silver Telecom "design-in" assistance

### 2. Description

The Ag5000 is a High Power over Ethernet (PoE+) module that can deliver up to 30 Watts of output power. Suitable for applications such as IP Telephones, WiMAX access points, PTZ cameras and thin client terminals.

The Ag5000 has been designed to extract power from Power Sourcing Equipment (PSE) over a conventional twisted pair Category 5 Ethernet cable. The modules dual inputs both conform to the IEEE 802.3af standard for signature recognition and class programming.

The Ag5000's dynamic input power sharing, automatically detects if the input power is being supplied from the data pair, the spare pair or both pairs. The module can also detect voltage mismatches and adjust accordingly.

The high efficiency DC/DC converter operates 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, thermal and short-circuit output protection.