



- **Low Cost & Small Size**
- **Drives 20 IR LED's / 7 white LED's**
- **87% efficiency**
- **Dimmable by PWM Control**
- **Internal and External PWM control**
- **Constant Current Drive**
- **Safely Drives LEDs at up to 1A**
- **Reduces Power Consumption**
- **Wide DC Input Range - 9V to 32V**
- **Programmable LED current**
- **Output Voltage up to 28V**
- **Open circuit protection**
- **Simple integration**

The Ag201 is an intelligent, cost-effective LED drive module. It has been designed to drive high power optical and infra-red LEDs at currents up to 1A. The input voltage may be below or above that of the output, making it ideal for battery and solar powered applications.

The Ag201 has a very wide input range of 9V to 32V<sub>DC</sub>. A 24V<sub>AC</sub> input would need the addition of just 2 external components. This gives extensive flexibility and means the

system and driver would require just one, lower cost, power supply. The Ag201 can also be used in conjunction with Silver Telecom Power over Ethernet (PoE) modules.

New generation high power LEDs are dimmed by varying the duty cycle of the drive current. This avoids the colour change associated with lower drive currents. The Ag201 provides two methods of achieving this; either by programming with a simple external resistor pull-down, or by providing an external PWM signal to modulate the on time. The internal PWM frequency is high to avoid perceived flicker.

The Ag201 is also ideal for driving high power infra red LEDs for security cameras. It provides a stable current, avoiding problems often caused by temperature and LED characteristics. It can provide a high powered pulse output required in number plate recognition systems.

With its high efficiency and versatility, the Ag201 is an ideal solution for the efficient driving of a wide range of LEDs.

Applications include security cameras, emergency lighting, LED Signs, vehicle lighting, low voltage track lighting, landscape lighting and beacons.

