

Ag59FE

POE PD Controller Module (PoE++) IEEE802.3bt



- **Compliant with IEEE802.3af, IEEE802.3at & IEEE802.3bt**
- **Programmable Classification (0-8)**
- **Up to 90 Watt Continuous Output Power (95W Peak Power)**
- **36V-57V Output Voltage – Non-adjustable**
- **Industrial Temperature Range**
- **Internal MPS Load setting**
- **Signature Disable for non-PoE applications**
- **35mm (L) x 14.5mm (H) x 3mm (D)**
- **Flexible interconnect options SMT/SIL**
- **Simple integration**
- **Designed & Manufactured in the UK**

The Ag59FE is a non-isolated PoE PD “Front-end” module that will identify as a Class 0-8 PD device, delivering line voltage presented to it at the negotiated power level.

The Ag59FE module is ideal for use in LED lighting circuits, Access Control, Transport and Industrial Automation applications - anywhere that might require access to a distributed power source. When implemented with appropriate transformer isolation or within a plastic enclosure offering double-insulation, a fully IEEE802.3 compliant

solution can be achieved.

The Ag59FE is compatible with Midspan and Endspan Power Sourcing Equipment (PSE) injectors. A Signature Disable feature allows operation with an external DC power source rather than from a PSE.

Additionally the MPS Load can be programmed to ensure that the PSE remains active and does not turn off, resulting in port deactivation. The Load Enable/Power Good output provides an indication that the output is at the line voltage supplied.

The Ag59FE is designed for simple integration, requiring the addition of a few low-cost external components.

Package format enables the module to be surface-mount reflowed, or to sit vertically via castellations along the edge of the module or via a customer-fitted header / flying leads.

