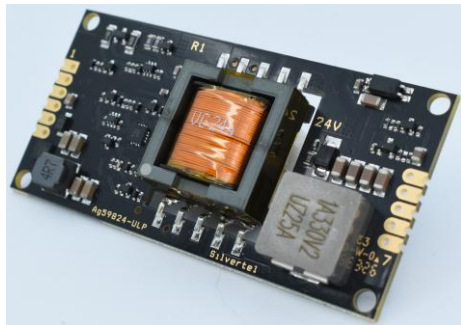


Ag59800-ULP

V0.3
May 2026

POE++, PD, High Efficiency, 89W, IEEE802.3bt Compliant,
Ultra-Low-Profile Module



- **Compact Low-Profile POE++ module compliant with IEEE 802.3af, IEEE802.3at & IEEE802.3bt**
- **Class 8, 89W Continuous Output Power**
- **Outline Dimensions :**
70mm (L) x 35mm (W) x 10.5mm (H)
- **High efficiency of typically 95% (12V)**
- **Industrial Temperature Range**
- **1500V Isolation (Input to Output)**
- **Input voltage range 37V to 57V**
- **Output voltage : 12V (Ag59812-ULP) or 24V (Ag59824-ULP)**
- **Overload, Thermal and Short-circuit protection**
- **Designed & Manufactured in the UK**

Silvertel's Ag59800-ULP is an Ultra-Low Profile PD module capable of delivering upto 89 Watts of output power. The module is designed for applications where height is limited such as Monitors, Smart Displays and Touch Screen Displays but is equally-suited to other applications.

The Ag59800-ULP is IEEE802.3 compliant and operates with either compliant Endspan or Midspan PSEs. The module performs Identification, Classification, Isolation and DC-DC Conversion, providing either a 12V or 24V, low ripple, low noise, regulated DC output.

The Ag59800-ULP is equipped with built-in overload, thermal and short-circuit output protection.

With an operating temperature range of -40°C to +85°C coupled with high efficiency conversion and thermal protection, the Ag59800-ULP offers a robust solution whilst making as much usable power available as possible over the Industrial Temperature Range.

Mechanical and electrical connection can be made via castellations on the edge of the PCB or via customer-fitted flying leads to off-board connectors or via pin headers, providing a high level of interconnect flexibility.

The Ag59800-ULP is easy to use and can be implemented very easily, requiring very few external components to construct a fully compliant solution.

