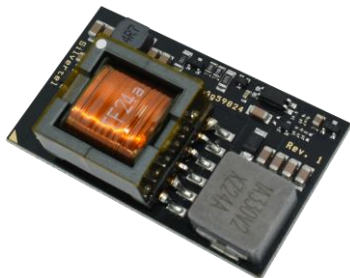


Ag59800-LPB

V1.0
May 2025

High Efficiency, SMT, Low Profile, 89W, IEEE802.3bt
Compliant PD Module



- **World's Smallest POE++ PD Module** : 51mm(L) x 31mm(W) x 16mm(H)
- **POE++ module compliant with IEEE 802.3af, IEEE802.3at & IEEE802.3bt**
- **89Watt Continuous Output Power**
- **High efficiency (95%, 12V Output variant) DC/DC converter**
- **Industrial Temperature Range**
- **1500V isolation (input to output)**
- **Input voltage range 37V to 57V**
- **Output voltage : 12V (Ag59812-LPB) or 24V (Ag59824-LPB)**
- **Overload, Thermal and Short-circuit protection**

Silvertel's Ag59800-LPB is a surface mount (SMT) PoE++ module delivering 89 Watts of output power - requiring less than 16cm² of PCB space. This is ideal for any high-power application where optimum efficiency is a requirement and space is at a premium, such as Wireless Access Points, Road Side Unit's for Smart Traffic applications, ANPR/PTZ cameras, Access Control Systems and Digital Advertising (display/monitor) applications.

Ag59800-LPB is fully compliant with the IEEE802.3bt standard. The device is a fixed Class 8 PD. The module works with both types of Power Sourcing Equipment (PSE) units - mid-span and end-span injectors. The high efficiency DC/DC converter operates over a wide input voltage range to provide a regulated low ripple, low noise output. The module provides built-in overload, thermal and short-circuit output protection.

Output voltage variants are available at 12V or 24V, with output adjustment up or down using a pull-up/down resistor. The module is rated over the industrial temperature range (-40°C to +85°C).

Available as a low-profile, surface mount device, allowing for close coupling and good thermal management to the host pcb. The module is designed for ease of use and simple integration, requiring very few external components.

