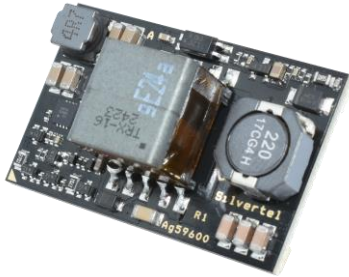


Ag59600-LPB

V1.0
Aug 2024

High Efficiency, SMT, Low Profile, 51W, IEEE802.3bt
Compliant PD Module



- **World's Smallest SMT POE++ PD Module :**
40mm(L) x 25mm(W) x 16mm(H)
- **POE++ module compliant with IEEE 802.3af, IEEE802.3at & IEEE802.3bt**
- **51 Watt Continuous Output Power (60W Peak)**
- **High efficiency (>93%) DC/DC converter**
- **Industrial Temperature Range**
- **1500V isolation (input to output)**
- **Input voltage range 37V to 57V**
- **Output voltage : 12V (Ag59612-LPB) or 24V (Ag59624-LPB)**
- **Overload, Thermal and Short-circuit protection**

Silvertel's Ag59600-LPB is a surface mount (SMT) PoE++ module delivering 51 Watts of output power - requiring only 10cm² of PCB space. This is ideal for any high-power application where space is at a premium, such as Wireless Access Points, PTZ cameras, door entry systems, monitors and remote computer terminal applications.

Ag59600-LPB is fully compliant with the

IEEE802.3bt standard. The device is a fixed Class 6 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.

Ag59600-LPB includes 1500V safety isolation as required by IEEE802.3 and to prevent earth loops.

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

