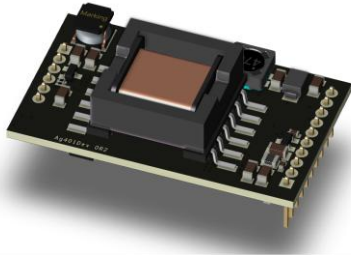


Ag401

V0.2
Aug 2025

POE++ to USB-C Controller, High Efficiency, 70W,
IEEE802.3bt Compliant, Module



- **Compact POE++ module compliant with IEEE 802.3af, IEEE802.3at & IEEE802.3bt**
- **Class 8, 70W Continuous Output Power – Single port USB-C PD Source 65W Output, plus Aux (+5V) 5W Output**
- **Outline Dimensions :**
51mm (L) x 30mm (W) x 16mm (H)
- **High efficiency DC/DC Converter**
- **Industrial Temperature Range**
- **1500V Isolation (Input to Output)**
- **Input voltage range 37V to 57V**
- **Output voltage : 3.3V to 20V - USB-C PD Rev 3.1 V1.2 compatible**
- **Overload, Thermal and Short-circuit protection**

Silvertel's Ag401 is a dual-in-line PoE to USB-C Controller module delivering 70 Watts of output power – split 65W for USB-C output and 5W from Auxiliary Supply Output. This is ideal for powering or charging any USB-C connected equipment from a POE++ Endspan or Midspan PSE.

The Ag401 is fully compliant with IEEE802.3bt standard and compatible with USB-C PD sourcing. The module provides Identification, Classification, Isolation and DC-DC Conversion, providing a 3.3V to 20V USB-C, PD source output.

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.

An Auxiliary 5V supply can be used to provide application power and adjusted for fine tuning.

The Ag401 module is rated over the industrial temperature range and includes 1500V safety isolation as required by IEEE802.3 standard and to prevent earth loops.

The Ag401 module is designed for simple integration, requiring very few external components.

