
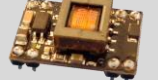
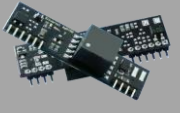

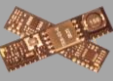
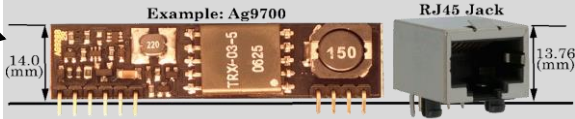


|  | Product Family  | Part No.   | Nominal Output Voltage | Max Output Power | External Components Required   | Benefits   |   |
|--|---|--|------------------------|------------------|--|--|---|
| Worlds Smallest Isolated Powered Device (PD) |  | Ag9924   | 24V                    | 12W              | Two Bridge Rectifiers<br>Low Cost Smoothing capacitor  | M : Standard module<br>Low cost Smallest PD solution available in the world<br>Class 0 operation<br>MT : Provides Over Temperature Protection<br>MT: Operation from -40°C up to +85°C.<br>SMT package size - 21mm (L) x 14mm (W) x 13.35mm (H) |   |
|  |   | Ag9912   | 12V                    | 12W              |  |  |   |
|  |   | Ag9905   | 5V                     | 9W               |  |  |   |
|  |   | Ag9903   | 3.3V                   | 6W               |  |  |   |
|  | Ag9900-LP   |   | Ag9912-LP              | 12V              | 10W  | Two Bridge Rectifiers<br>Low Cost Smoothing capacitor  | Small PD solution. The same foot print as Ag9900-M and Ag9900-MT but <b>Low Profile - just 8mm in height</b><br>Operation from -40°C up to +85°C.<br>Over Temperature Protection as standard<br>Class 0 operation<br>DIL package size - 28mm (L) x 17.8mm (W) x 8mm (H) |
|  |   |  | Ag9905-LP              | 5V               | 7W   |  |   |
| Ag9903-LP                                    |   |  | 3.3V                   | 4.9W             |  |  |   |
| Isolated Powered Device (PD) Modules         |  | Ag9712   | 12V                    | 12W              | S:2 bridge rectifiers & low cost smoothing capacitor<br>2BR:Low cost smoothing cap (Bridge Rectifiers are onboard)   | Very low cost isolated solution<br>Pin compatible with Ag9400 / Ag9600<br>Class 0 operation<br>SIL package - 56mm (L) x 18mm (W) x 14mm (H)  |   |
|  |   | Ag9705   | 5V                     | 9W               |  |  |   |
|  |   | Ag9703   | 3.3V                   | 6W               |  |  |   |
|  | Ag9700-FL   |   | Ag9724-FL              | 24V              | 12W  | Low cost smoothing capacitor<br>(Bridge Rectifiers are onboard)  | Industrial Temperature<br>Over Temperature Protection<br>Very low Ripple Output<br>Programmable Classification<br>Pin compatible & suggested replacement for Ag9000<br>SIL package - 56mm (L) x 18mm (W) x 14mm (H)   |
|  |   |  | Ag9712-FL              | 12V              | 12W  |  |   |
|  |   |  | Ag9705-FL              | 5V               | 9W   |  |   |
|  |   |  | Ag9703-FL              | 3.3V             | 6W   |  |   |
|  | Ag9200  |    | Ag9205                 | 5V               | 13W  | Two bridge rectifiers &<br>Low cost smoothing capacitor  | High efficiency synchronous rectification<br>Class programming capability<br>SIL package - 56mm (L) x 18mm (W) x 14mm (H)   |
| Why Silvertel?                               | Smaller board space   | SIL & SMT modules are strategically designed to be the same height or smaller than an RJ45 connector. Max space required is less than 1.0 in <sup>2</sup> . Ag9900 series is even smaller. |                        |                  |  <p>Example: Ag9700</p> <p>RJ45 Jack</p> <p>14.0 (mm)</p> <p>13.76 (mm)</p> |  |   |
|  | Safety  | Modules are fully tested and compliant to IEEE 802.3af, IEEE 802.3at or IEEE 802.3bt   |                        |                  |  |  |   |
|  | Quicker time to market  | The modules are optimized PoE circuits. No complex reference designs with many external components   |                        |                  |  |  |   |
|  | Low cost solution   | Modules are a lower cost solution compared to IC solutions   |                        |                  |  |  |   |
|  | Compliance  | Tested to meet international EMC standards   |                        |                  |  |  |   |

|                         | Product Family                                 | Part No.   | Nominal Output Voltage     | Max Output Power | External Components Required | Benefits  |  |
|-------------------------|--|--|----------------------------|------------------|------------------------------|---|--|
| PD MODULES              | Isolated 30W PD Module<br>IEEE802.3at          |  Ag5200   | Ag5200                     | 12V              | 30W                          | Two low cost bridge rectifiers<br>One low cost smoothing capacitor  | Compliant to IEEE802.3at Class 4 operation (IEEE802.3af defaults to class 0)<br>DIL package - 51mm (L) x 16mm (H) x 30mm (W)<br>-40°C lower operating temp.  |
|                         | Worlds Smallest Isolated 30W PD<br>IEEE802.3at |  Ag5300   | Ag5305<br>Ag5300<br>Ag5324 | 5V<br>12V<br>24V | 30W                          | Two low cost bridge rectifiers<br>One low cost smoothing capacitor  | Compliant to IEEE802.3at Class 4 operation (IEEE802.3af defaults to class 0)<br>SIL package - 57mm (L) x 14mm (H) x 18mm (W)   |
|                         | Isolated 100W PD Module<br>IEEE802.3bt         |  Ag5800   | Ag5800                     | 12V or 24V       | 100W                         | Two low cost bridge rectifiers<br>Two low cost smoothing capacitors   | 100W Max , 72W min over 100m with IEEE802.3bt PSE.<br>Fixed Type 4 Class 8.<br>Short Circuit and Over temperature protection<br>Packaging: 70mm (L) x 35mm (W) x 19.2mm (H)  |
|                         | Isolated 60W PD<br>IEEE802.3bt                 |  Ag5810   | Ag5810                     | 12V or 24V       | 60W                          | Two low cost bridge rectifiers<br>Two low cost smoothing capacitors   | 60W Max over 100m with IEEE802.3bt PSE.<br>DIL package - 70mm (L) x 15.6mm (H) x 30mm (W)  |
| PSE MODULES             | PSE Module 30W & 60W<br>IEEE802.3af & .at      |  Ag6100   | Ag6100                     | 48V/57V          | 39W                          | No external components required.<br>Recommended Fused input.  | Compliant to IEEE802.3af & 802.3at standards<br>Industrial temperature option as standard Ag6100 only<br>SIL package - 53mm (L) x 14mm (H) x 8mm (D)   |
|                         |  |  | Ag6110                     | 48V/57V          | 74W                          |   |  |
|                         | PSE Module 30W & 60W<br>IEEE802.3af, .at & .bt |  Ag6120   | Ag6120                     | 48V/57V          | 39/74W                       | No external components required.<br>Recommended Fused input.<br>Pin compatible with Ag6100 / 6110.                      | Compliant to IEEE802.3 af, .at & .bt standards<br>Industrial temperature option as standard.<br>SIL package - 53mm (L) x 14mm (H) x 8mm (D)  |
|                         | PSE Module 95W<br>IEEE802.3bt                  |  Ag6800 | Ag6800                     | 57V              | 95W                          | Recommended Fused input.  | Compliant to IEEE802.3bt.<br>Built-in Class programming and safety features.<br>Packaging: DIL: 51mm (L) x 35mm (W) x 7mm (H)  |
| DC-DC CONVERTER MODULES | DC-DC Boost Converter for Ag6100 / IEEE802.3at |  Ag7100 | Ag7100                     | 48V/57V          | 40W                          | One input plus one output low cost smoothing capacitor.<br>Optional output voltage programming resistor (57V Nominal) . | Provides up to 40W of power at 48V or 57V for IEEE compliant PSE applications. Wide input range of 11V to 27V DC.<br>IEEE compliant 1.5kV DC impulse isolation input to output.<br>Packaging: 51mm (L) x 30mm (W) x16mm (H)                                      |
|                         | DC-DC Boost Converter for Ag6100 / IEEE802.3af |  Ag7200 | Ag7200                     | 36V/57V          | 20W                          | One input plus one output low cost smoothing capacitor.<br>Optional output voltage programming resistor (48V Nominal).  | Provides up to 20W of power at 36V to 57V for IEEE compliant PSE applications. Wide input range (5V-15V) with Short-circuit and Thermal protection.<br>IEEE compliant 1.5kV DC impulse isolation input to output.<br>SIL package - 56mm (L) x 18mm (W) x14mm (H) |

Silvertel manufactures a wide range of power modules for DC-DC Boost converters, Low Voltage LED Drivers, Wireless Power transfer, SLA Battery Charging plus SLIC and Trunk analogue telecom interfaces. All Silvertel's modules are cost optimised and manufactured in the UK ensuring the highest quality at competitive pricing.

Version 5.0 Mar 2020

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