
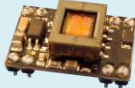
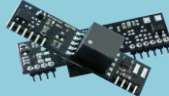


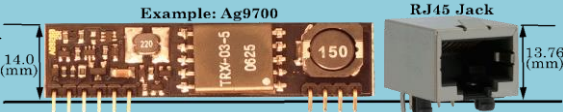
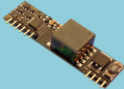

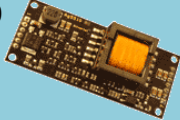
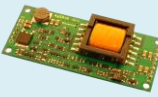
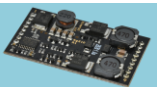



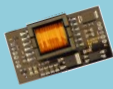
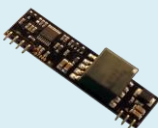


	Product Family	Part No.	Nominal Output Voltage	Max Output Power	External Components Required	Benefits
Worlds Smallest Isolated Powered Device (PD)	<b>Ag9900-M/MT</b> 	<b>Ag9924</b>	24V	12W	Two Bridge Rectifiers Low Cost Smoothing capacitor	M : Standard module Low cost Smallest PD solution available in the world Class 0 operation MT : Provides Over Temperature Protection MT: Operation from -40°C up to +85°C. SMT package size - 21mm (L) x 14mm (W) x 13.35mm (H)
		<b>Ag9912</b>	12V	12W		
		<b>Ag9905</b>	5V	9W		
		<b>Ag9903</b>	3.3V	6W		
	<b>Ag9900-LP</b> 	<b>Ag9912-LP</b>	12V	10W	Two Bridge Rectifiers Low Cost Smoothing capacitor	Small PD solution. The same pin-out as Ag9900-M and Ag9900-MT but <b>Low Profile - just 8mm in height</b> Operation from -40°C up to +85°C. Over Temperature Protection as standard Class 0 operation DIL package size - 28mm (L) x 17.8mm (W) x 8mm (H)
		<b>Ag9905-LP</b>	5V	7W		
<b>Ag9903-LP</b>		3.3V	4.9W			
Isolated Powered Device (PD) Modules	<b>Ag9700</b> 	<b>Ag9712</b>	12V	12W	S:2 bridge rectifiers & low cost smoothing capacitor 2BR:Low cost smoothing cap (Bridge Rectifiers are onboard)	Very low cost isolated solution Pin compatible with Ag9400 / Ag9600 Class 0 operation SIL package - 56mm (L) x 18mm (W) x 14mm (H)
		<b>Ag9705</b>	5V	9W		
		<b>Ag9703</b>	3.3V	6W		
	<b>Ag9700-FL</b> 	<b>Ag9724-FL</b>	24V	12W	Low cost smoothing capacitor (Bridge Rectifiers are onboard)	Industrial Temperature Over Temperature Protection Very low Ripple Output Programmable Classification Pin compatible & suggested replacement for Ag9000 SIL package - 56mm (L) x 18mm (W) x 14mm (H)
		<b>Ag9712-FL</b>	12V	12W		
		<b>Ag9705-FL</b>	5V	9W		
		<b>Ag9703-FL</b>	3.3V	6W		
	<b>Ag9200</b> 	<b>Ag9205</b>	5V	13W	Two bridge rectifiers & Low cost smoothing capacitor	High efficiency synchronous rectification Class programming capability 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 RJ45 Jack</p> <p>14.0 (mm) 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	Worlds Smallest Isolated 30W PD IEEE802.3at	Ag5300 	Ag5324 Ag5300 Ag5305	24V 12V 5V	30W 24W 20W	Two low cost bridge rectifiers One low cost smoothing capacitor	Compliant to IEEE802.3at Class 4 operation (IEEE802.3af defaults to class 0) SIL package - 57mm (L) x 14mm (H) x 18mm (W)
	Worlds Smallest Isolated 30W High Efficiency PD IEEE802.3at	Ag5400 	Ag5424 Ag5412 Ag5405	24V 12V 5V	30W	Two low cost bridge rectifiers One low cost smoothing capacitor	Compliant to IEEE802.3at Class 4 operation (IEEE802.3af defaults to class 0) Industrial Temperature Range High Efficiency (>93%) Cooler running - reduction in wasted power SIL package - 57mm (L) x 14mm (H) x 18mm (W)
	Isolated 100W PD Module IEEE802.3bt	Ag5800 	Ag5800	12V or 24V	85W	Two low cost bridge rectifiers Two low cost smoothing capacitors	85W Max, 72W min over 100m with IEEE802.3bt PSE. Fixed Type 4 Class 8. Short Circuit and Over temperature protection Packaging: 70mm (L) x 35mm (W) x 19.2mm (H)
	Isolated 60W PD IEEE802.3bt	Ag5810 	Ag5810	12V or 24V	60W	Two low cost bridge rectifiers Two low cost smoothing capacitors	60W Max over 100m with IEEE802.3bt PSE. Fixed Type 4 Class 7 DIL package - 70mm (L) x 15.6mm (H) x 30mm (W)
	40W PD-LED Driver IEEE802.3bt	Ag210 	Ag210	40V (+ 5-12V Aux.)	40W (+ 12W Aux.)	Two low cost bridge rectifiers LED Current programming resistor (1206) One low cost smoothing capacitor	40W Max., 40V LED String Output with 12W Programmable Aux Supply. Fixed Type 3 Class 6. I2C Interface on-board to program Dimming, Brightness on Start-up, etc. DIL package - 30mm (L) x 8.6mm (H) x 51mm (W)
PSE MODULES	PSE Module 30W & 60W IEEE802.3af, .at & .bt	Ag6120 	Ag6120	48V/57V	39/74W	No external components required. Recommended Fused input. Pin compatible with Ag6100 / 6110.	Compliant to IEEE802.3af, .at & .bt standards Programmable Power Output Industrial temperature option as standard. SIL package - 53mm (L) x 14mm (H) x 8mm (D)
	PSE Module 4-Channel 30W IEEE802.3af & .at	Ag6400 	Ag6400	48V/57V	39W	Minimal external components required. 4- Channel independent outputs. VDD & VEE supply isolated input required.	Compliant to IEEE802.3af & at standards Programmable current limits Industrial Temperature Range. I2C interface on-board. SIL package - 56mm (L) x 14mm (H) x 8mm (D)
	PSE Module 99W IEEE802.3bt	Ag6800 	Ag6800	57V	99W	Recommended Fused input.	Compliant to IEEE802.3bt. Built-in Class programming and safety features. Packaging: DIL: 51mm (L) x 35mm (W) x 7mm (H)
DC-DC CONVERTER MODULES	DC-DC Converter 11-27V Input; 48V-57V Output	Ag7100 	Ag7100	48V to 57V	40W	One input plus one output low cost smoothing capacitor. Optional output voltage programming resistor (57V Nominal) .	Provides up to 40W of power at 48V to 57V for IEEE compliant PSE applications. Wide input range of 11V to 27V DC. IEEE compliant 1.5kV DC impulse isolation input to output. Packaging: 51mm (L) x 30mm (W) x 16mm (H)
	DC-DC Converter 5-15V Input; 36V-57V Output	Ag7200 	Ag7200	36V to 57V	20W	One input plus one output low cost smoothing capacitor. 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. IEEE compliant 1.5kV DC impulse isolation input to output. SIL package - 56mm (L) x 18mm (W) x 14mm (H)

Silvertel also manufactures a wide range of power modules for DC-DC Converters, Low Voltage LED Drivers, Wireless Power transfer, 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.

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