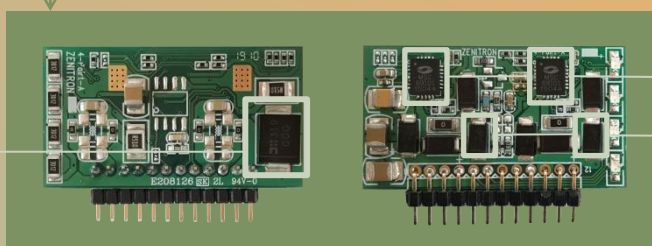
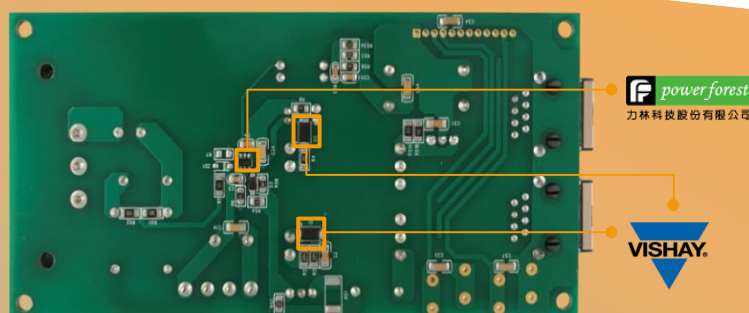
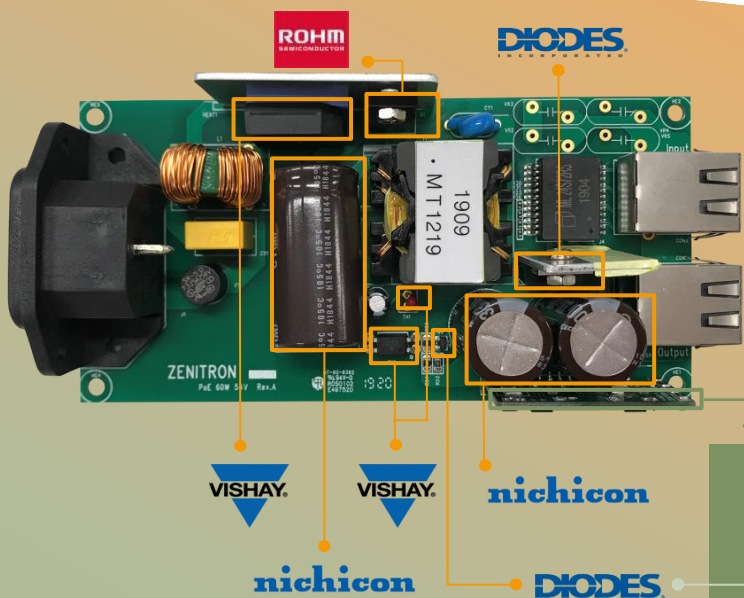
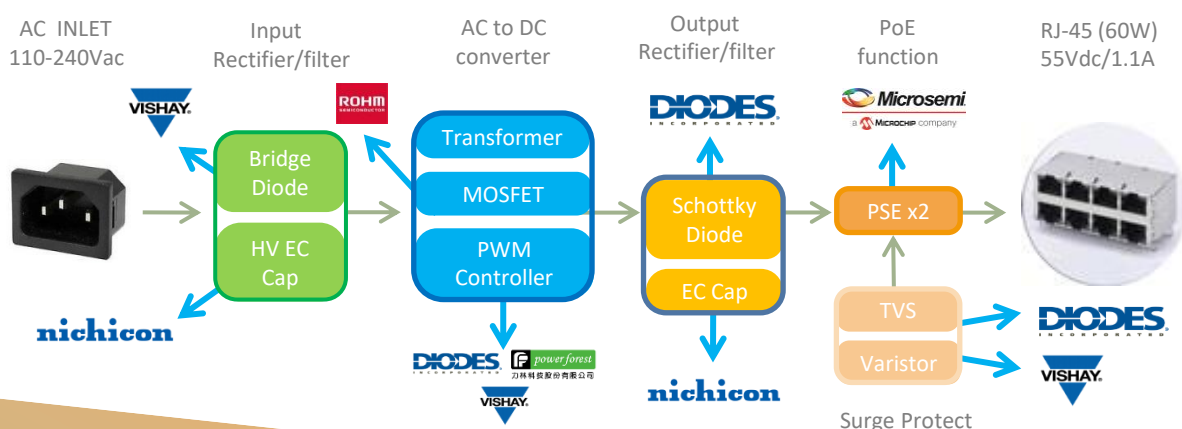




Zenitron AC/DC PoE Module 60W



Applications

1. IEEE802.3at and IEEE802.3af powered devices such as IP phones, WLAN Access Points and Network Cameras.
2. 48V Input Telcom/Networks Hot Swappable Power Supply.

Specification Description

1. 110 to 240VAC Input range
2. 54V at 1.1A output
3. Fully IEEE802.3af-2003 and IEEE802.3at-2009 compliant
4. Configurable AT/AF modes
5. Supports 2 Pairs and 4 Pairs (Data and Spare Power Feeding)

Solution Feature Description

1. 110 to 240VAC Input range isolated Flyback converter with 60W of output power
2. The evaluation board is configured to operate at 200kHz switching frequency
3. 54V at 1.1A output
4. Efficiency up to 88% @54V 1.1A
5. Fully IEEE802.3af-2003 and IEEE802.3at-2009 compliant
6. Supports 2 Pairs and 4 Pairs (Data and Spare Power Feeding)
7. Over-temperature protection
8. Wide temperature range: -40° to +85° C



Zenitron AC/DC PoE Module 60W

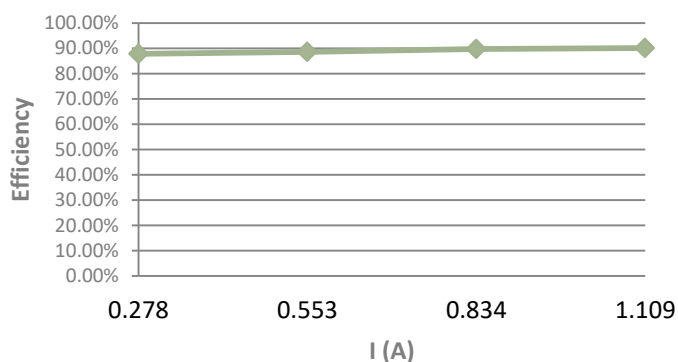
Part List

Block	Vendor	Part number	Description
Input Rectifier/filter		KBL06-E4/61T	BRIDGE 600V 4A
		UCY2W101MHD	EC 100u 450V M 105 18x33.5 P=7.5
		UHE1H100MDD	EC 10u 50V M 105 5x11 P=2.5
AC to DC		PF6000AMG	CONTROLLER SOT-26
		R6011ENX	NMOS 600V 11A TO-220FM
		CS1M-E3/I	DIODE 1000V 1A Trr=1.5us SMA
		US1D-E3/61T	DIODE 200V 1A Trr=50ns SMA
		1N4148W-E3-08	DIODE 75V 150mA Trr=4ns SOD-123
		VO617A-3	PHOTO CTR=130-260 DIP4 P=7.62
		TL431ASA-7	IC-SMD REGULATOR SOT23
		NTCLE100E3104GB0	NTC 100Kohm P=2.5
Output Rectifier/filter		UPW2A331MHD	EC 330u 100V M 105 16x25 P=7.5
		D-SBR10U300CT	SCHOTTKY 300V 10A TO-220AB
PoE		PD69101	Meidan, 1 Port PSE IC
Surge Protect		SS1H10-E3/61T	High-Voltage Surface Mount Schottky Rectifier 100V 1A
		D-SMCJ58A-13-F	Surface Mount TRANSZORB Transient Voltage Suppressors SMC

Efficiency Test

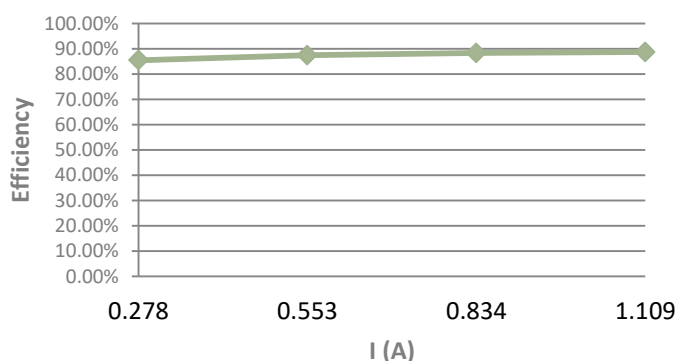
Output Load	POE 60W				
	Output Current(A)	Output Voltage(V)	Output Power (W)	Input Power (W)	Efficiency (%)
25%	0.278	54.18	15.062	17.16	87.77%
50%	0.553	54.16	29.95	33.81	88.58%
75%	0.834	54.14	45.153	50.36	89.66%
100%	1.109	54.13	60.03	66.66	90.05%
Average					89.02%

115V 60Hz efficiency



Output Load	POE 60W				
	Output Current(A)	Output Voltage(V)	Output Power (W)	Input Power (W)	Efficiency (%)
25%	0.278	54.22	15.073	17.64	85.45%
50%	0.553	54.23	29.989	34.31	87.41%
75%	0.834	54.23	45.228	51.22	88.30%
100%	1.109	54.22	60.13	67.83	88.65%
Average					87.45%

230V 50Hz efficiency



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