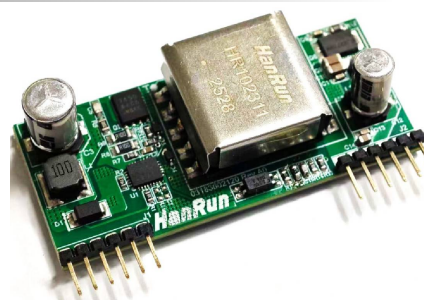


HR836021C

Features :

IEEE802.3af/at compliant
Support 10M/100M/1000M power on Ethernet system
Integral high efficiency DC/DC converter.
Low output ripple and noise
Short-circuit protection
Transformer isolation ,1500Vdc isolation (input to output)
RoHS Compliant (Pb Free)



Applications:

IP Cameras
Wireless access point
Security and alarm systems
VOIP telephone
Point of sale network terminal equipment

Electrical Specification

Output	DC Volatage	12V
	Current Range	2.1A
	Rated Power	25.5W Max
	Ripple & Noise (note 2)	150mVp-p Max. @ BW=DC to 20MHz
	Line Regulation	±1%
	Load Regulation	±1%
	Voltage Accuracy	±2%
	Switching Frequcy	250KHz Typ.
Input	Voltage Range	44 ~ 57VDC (local adapter input 12VDC)
	Efficiency Min	87% typ @ full load
	DC Current (Typ.)	12mA typ. @ No Load ; 600mA typ. @ Full Load
Protection	Outout short Circuit	Recovers automatically after fault condition is removed
	Input overvoltage	58V tranaient voltage suppressor
Environment	Working Temp., Humidity	-25 ~ +60°C , 20% ~ 80% RH non-condensing, altitude of 1000 feet Max.
	Storage Temp., Humidity	-40 ~ +85°C, 10 ~ 90% RH , altitude of 3000 feet Max.
Safety	Withstand Voltage	Input to output :1500VDC Min. , 1mA Max. , 60 senonds
	Isolation Resistance	Input to output :1000M Ohms @ 500VDC 25°C 70% RH
Others	Dimensions	62*27*17.5 mm (L*W*H)
	Weight	about 30g

Note :

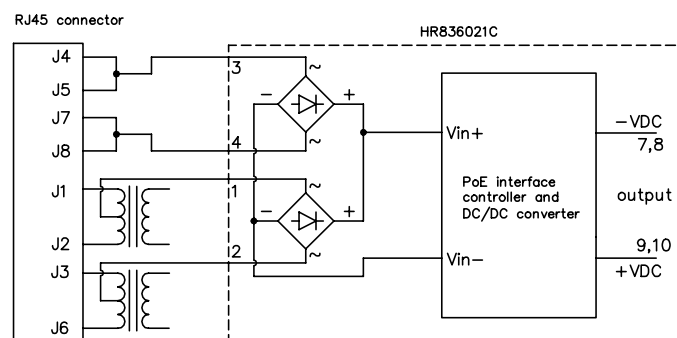
- 1.All parameters are specified at normal input, rated load, 25°C ambient.
- 2.Ripple & noise are measured by using a probe terminated with a 0.1uf & 47uf capacitors .
- 3.Please prevent the converter from operating in overload or short circuit condition for more than 60 seconds.
- 4.This part is not designed for parallel operation.
- 5.The module are designed to extract power from a conventional twisted pair Category 5 Ethernet cable, conforming to the IEEE 802.3af and IEEE 802.3at (PoE) standard .

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Pin Description

Pin No.	Pin	description
1	VA1	This input pin is used in conjunction with VA2 and connects to the centre tap of the transformer connected to pins 1 & 2 of the RJ45 connector
2	VA2	This input pin is used in conjunction with VA1 and connects to the centre tap of the transformer connected to pins 3 & 6 of the RJ45 connector
3	VB1	This input pin is used in conjunction with VB2 and connects to pin 4 & 5 of the RJ45 connector
4	VB2	This input pin is used in conjunction with VB1 and connects to pin 7 & 8 of the RJ45 connector
5	NC	Not Connect to any pins, for assembly only
6	NC	Not Connect to any pins, for assembly only
7,8	–VDC	Ground. The ground return for the +VDC output
9,10	+VDC	DC Output. This pin provides the regulated output from the DC/DC converter
11,12	NC	Not Connect to any pins, for assembly only

Typical Connection Diagram



Mechanical Dimensions

