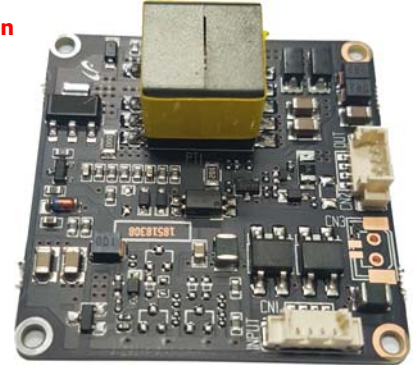


**Built in 4KV Surge protection**



**1. Input Condition**

- 1) Rated Voltage : PoE(802.3af), DC12V
- 2) Variable Scope for Input voltage :
  - PoE (37~57V),
  - DC(Output 과 Wiried-OR)

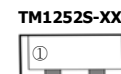
**2. Output Ratings**

CHANNEL	CH1
Rated Voltage	+12V
Rated Current	1.0A
Regulated Output Current Variation	0.1A ~1.0A
Regulated Output Voltage Variation	+12V±5% (+11.4V ~12.6V)
Ripple & Noise	200mVp-p Max.

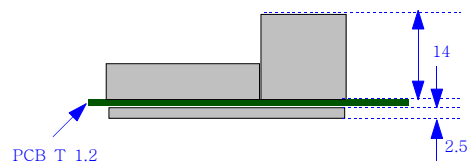
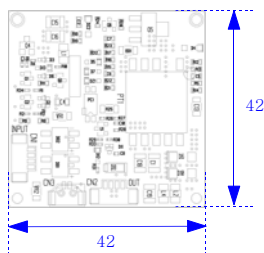
**3. Connector Pin Map**

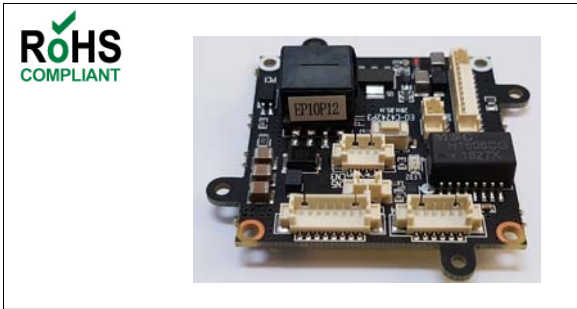
Pin No.	CN1 (TM1252S-04)
1	VA+
2	VA-
3	VB+
4	VB-

Pin No.	CN2 (TM1252S-04)
1	EXT +12V
2	GND
3	GND
4	+12V Output



**4. Dimension (Unit mm)**



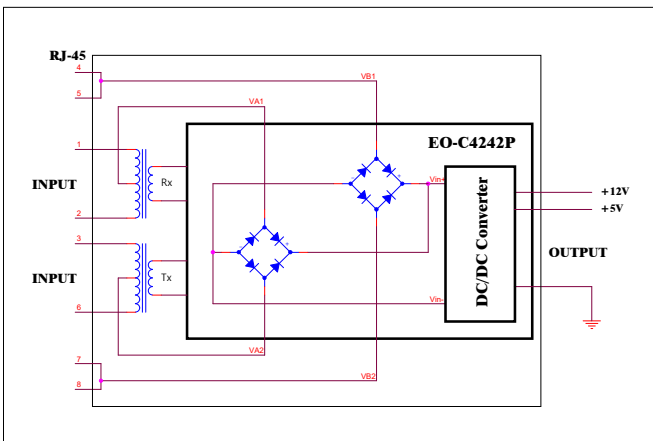


- IEEE 802.3af standard 준용 & 최대 8.4W 출력
- 85% efficiency DC/DC converter
- Input voltage range PoE(36V to 57V), DC(10~14)
- 5채널 출력 (+12V,+5V)
- Buyer 지정 Interface 제공 (각종 Sensor 입.출력 등)
- Overload and short-circuit Protection
- Simple integration

장치는 PoE(IEEE802.3af)와 DC12V를 정격입력으로 하고 RCC방식으로 동작하는 자력식 스위칭 전원장치로서, 입력된 전압을 2개 채널(+12V, +5V)의 출력으로 공급하며, 정격입력 상태에서 최대 **8.4W**의 전력을 공급할 수 있으며, 부하 회로의 단락, 전원 자신의 단락에 대하여도 보호회로가 동작하여 장치의 발연, 발화를 방지하고 있습니다.

EO-C4242P는 IEEE802.3af PoE standard를 준용하며, Conventional twisted pair Category5 Ethernet Cable로 부터 필요한 전원을 추출할 수 있습니다.

## ■ Block Diagram



## ■ 출력 사양

채널	CH1	CH2
정격출력전압	+12V	+5V
출력전압 변동범위	+12V±5%	+5V±5%
출력전류 (Typ.)	500mA	100mA
출력전류 변동범위	100 ~ 700mA	0 ~ 100mA
Ripple & Noise (Max.)	200mVp-p	50mVp-p
단락 보호	5초간의 단락에도 발연, 발화가 없을 것	

## ■ 입.출력 사양

### ➢ Connector Pin 사양

No.	CN1 (AXK6S90537YG)	No.	CN3 (TM1252-04)	No.	CN4 (TM1252-06)
1~80	Buyer 지정	1	+3.3V IN	1	PWM1
		2	RXD	2	PHOTO-SEN
		3	TXD	3	GND
		4	GND	4	+5V OUT
		5	GND	5	GND
		6	+12V OUT	6	+12V OUT
No.	CN2 (TM1252-12)	No.	CN2 (TM1252-12)	No.	CN5 (TM1252-06)
1	AUX 12V IN	7	VA1	1	Buyer 지정 CN1과 Through
2	GND	8	VA2		
3	CVS OUT	9	TX+	2	CN1과 Through
4	GND	10	TX-		
5	VB1	11	RX+	No.	CN6 (TM1252-06)
6	VB2	12	RX-		
1~8				1~8	Buyer 지정 CN1과 Through

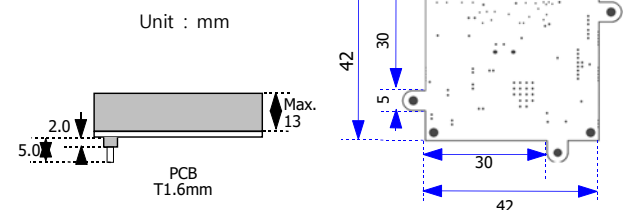
### ➢ PoE Pin Description

Name	Description
VA1	Rx Input(1) VA2 핀과 결합하여 사용되고, RJ45 Connector 1,2번 핀(Rx)과 트랜스의 중앙 탭 연결
VA2	Tx Input(2) VA1 핀과 결합하여 사용되고, RJ45 Connector 3,6번 핀(Tx)과 트랜스의 중앙 탭 연결
VB1	Direct Input(1) VB2핀과 결합하여 사용되고, RJ45 Connector 4,5번 핀과 연결
VB2	Direct Input(2) VB1핀과 결합하여 사용되고, RJ45 Connector 7,8번 핀과 연결

## ■ Application

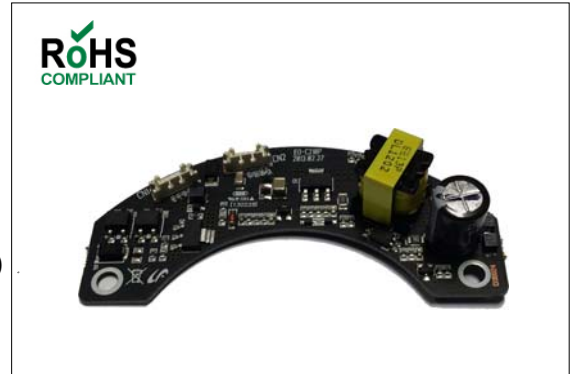
IP Camera, Web-server, NVR, AP 등에 적합

## ■ Dimension



**1. Input Condition**

- 1) Rated Voltage : PoE(802.3at), DC12V(AUX Input).
- 2) Variable Scope for Input voltage :
  - PoE (40~57V),
  - DC12V(출력단과 wired\_OR 되어있음)



**2. Output Ratings**

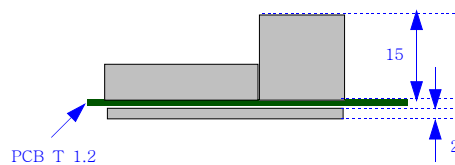
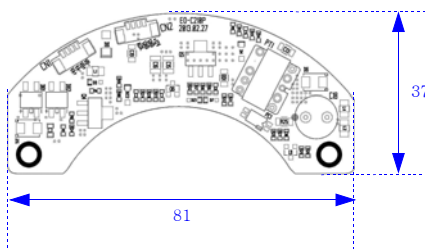
- 1) Rated Voltage : +12V.
- 2) Rated Current : 450mA (Typ.).
- 3) Regulated Output Current Variation : 0.1A ~ 0.5A
- 4) Regulated Output Voltage Variation : +11.4V~12.6V (DC 입력은 출력단과 wired\_OR 되어있음).
- 5) Ripple & Noise : 200mVp-p (Max.).

**3. Connector Pin Map**

Pin No.	CN1 (TM1252S-04)
1	VA+
2	VA-
3	VB+
4	VB-

Pin No.	CN2 (TM1252S-04)
1	AUX INPUT (+12V)
2	GND
3	GND
4	+12V OUTPUT

**4. Dimension (Unit mm).**



## 1. Input Condition

- 1) Rated Voltage : PoE(802.3at), DC12V
- 2) Variable Scope for Input voltage :  
PoE (40~57V), DC12V(출력단과 Wired OR)



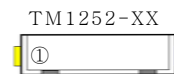
## 2. Output Ratings

- 1) Rated Voltage : +12V
- 2) Rated Current : 2.0A (Typ.)
- 3) Regulated Output Current Variation : 0.1A ~ 2.2A
- 4) Regulated Output Voltage Variation : +11.4V~12.6V (EXT12V 사용 시 입력전압 그대로 By-pass)
- 5) Ripple & Noise : 400mVp-p (Max.)

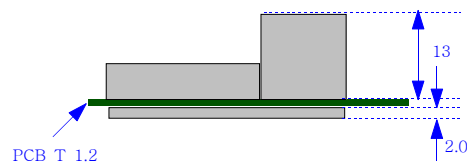
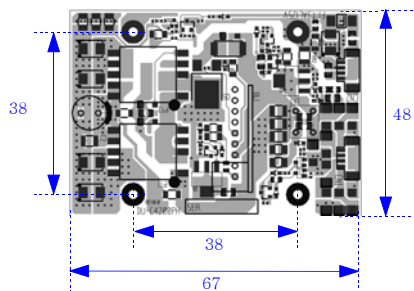
## 3. Connector Pin Map

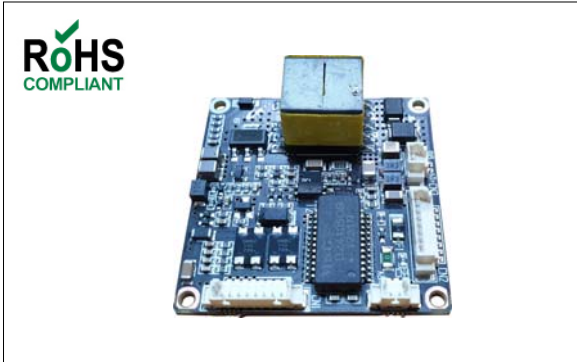
Pin No.	CN1 (TM1252S-04)
1	VB-
2	VB+
3	VA-
4	VA+

Pin No.	CN2 (TM1252S-04)
1	+12V Output
2	GND
3	GND EXT
4	+12V EXT



## 4. Dimension (Unit mm)



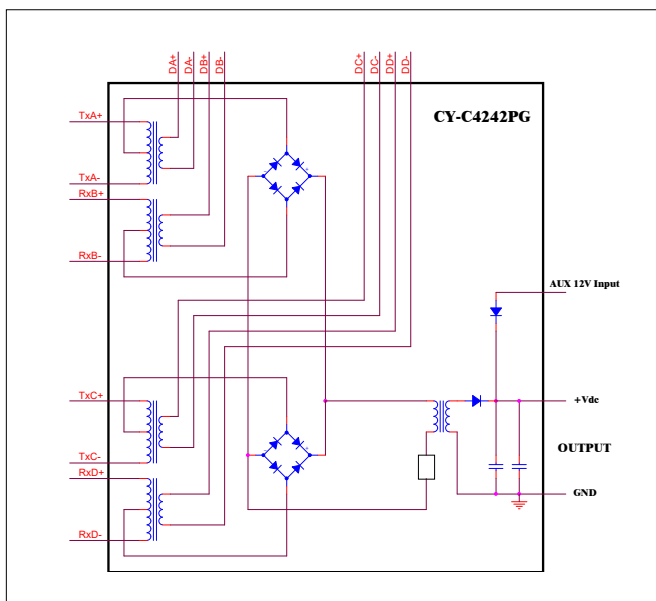


- IEEE802.3af standard 준용
- Input voltage range: 36V ~ 57V
- Short-circuit protection
- CCTV 카메라 표준 Size 42mm×42mm
- Pb free and RoHS compliant
- Power Classification: Class0

이 장치는 PoE(IEEE802.3af)를 정격 입력으로 하는 RCC방식의 자력식 스위칭 전원장치로서, 입력된 전압을 1개 채널(+12V)의 출력으로 공급하며, 부하회로의 단락, 전원 자신의 단락에 대하여도 보호회로가 동작하여 장치의 발연과 발화를 방지하고 있습니다.

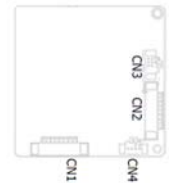
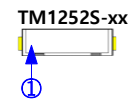
CY-C4242PG는 IEEE802.3af PoE standard를 준용하며, Conventional twisted pair Category5 Ethernet Cable로부터 필요한 전원을 추출할 수 있습니다.

## ■ Block Diagram



## ■ Pin Description

PIN No.	CN1 (TM1252S-08)	PIN No.	CN2 (TM1252S-08)	PIN No.	CN3 (TM1252S-02)						
1	TxA +	1	DA +	1	GND						
2	TxA -	2	DA -	2	+12V Output						
3	RxB +	3	DB +	<table border="1"> <thead> <tr> <th>PIN No.</th> <th>CN4 (TM1252S-02)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Aux input(+12V)</td> </tr> <tr> <td>2</td> <td>GND</td> </tr> </tbody> </table>		PIN No.	CN4 (TM1252S-02)	1	Aux input(+12V)	2	GND
PIN No.	CN4 (TM1252S-02)										
1	Aux input(+12V)										
2	GND										
4	TxC +	4	DB -								
5	TxC -	5	DC +								
6	RxB -	6	DC -								
7	RxD +	7	DD +								
8	RxD -	8	DD -								



## ■ Input condition & Output ratings

### 1. Input Condition

- 1) Rated Voltage : PoE(802.3af)
- 2) Variable Scope for Input voltage : PoE (DC36~57V)
- 3) Operating Temperature : -20 ~ 70 Ta/°C (Typ. 25°C)

### 2. Output Ratings

- 1) Rated Voltage : +12V
- 2) Rated Current : 500mA (Typ.)
- 3) Regulated Output Current Variation : 0.1A ~ 0.55A
- 4) Regulated Output Voltage Variation : +11.4V ~ +12.6V
- 5) Ripple & Noise : 200mVp-p (Max.)

## ■ Dimension

Unit: mm

