



高霖通訊科技有限公司  
Go-Link Technology Co., Ltd.

產品規格/承認書  
PRODUCT SPECIFICATION / APPROVAL SHEET

產品 :

Product : Ethernet Over Any Cable Module  
( Coaxial / cat-5 / phone / speaker / DC or AC power cable )

型號

Model No. : MIPE-20101

客戶

Customer :

客戶型號

Customer Model No. :

		本承認書內容若貴公司確認無誤， 請於下方承認欄內簽章。 <b>Please confirm your acceptance of this approval sheet by authorized signatures.</b>	
		承認欄 <b>Approved Signature</b>	
版本 (Version)	V1.4		
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# 1. General

- Integrated 10/100 802.3az Ethernet PHY
- Compatible with 2MHz to 30MHz Channel
- 200Mbps PHY Rate Max.
- Node support : 4 Active / 8 Total
- Application :
  - (1) IP Extender over coaxial cable.
  - (2) IP Extender over cat-5 / cat-6 cable.
  - (3) IP Extender over Any 2 Wire cable ( phone cable, speaker cable, DC power cable ).
  - (4) IP Extender over AC Power Line.

# 2. Environmental Specification

No.	Items	Min.	Typ.	Max.	Unit.
1	Operating Temperature	-10	-	+60	°C
2	Storage Temperature	-20	-	+70	°C

# 3. Electrical Characteristics

Testing Condition @ 25°C

## 3.1 DC Characteristics

No.	Items	Min.	Typ.	Max.	Unit.
1	Supply Voltage	7.5	12	14	V <sub>DC</sub>
2	Current Consumption @12V	50	-	65	mA

## 4. Pin Assignment



Pin No.	Name	I / O	Function Description
1	GND	-	Ground
2	RX-	I	Negative differential input
3	RX+	I	Positive differential input
4	GND	-	Ground
5	TX-	O	Negative differential output
6	TX+	O	Positive differential output
7	GND	-	Ground
8	ZC IN	I	Zero Cross Input : Minimum : 100mVp-p AC coupled maximum : 3.3Vp-p AC coupled
9	Standby	O	N/A ( Option Low : Working , Hi : Standby )
10	12V IN	I	12V DC Input Pin
11	E TX N	O	Ethernet PHY TX Negative
12	E TX P	O	Ethernet PHY TX Positive
13	E RX N	I	Ethernet PHY RX Negative
14	E RX P	I	Ethernet PHY RX Positive

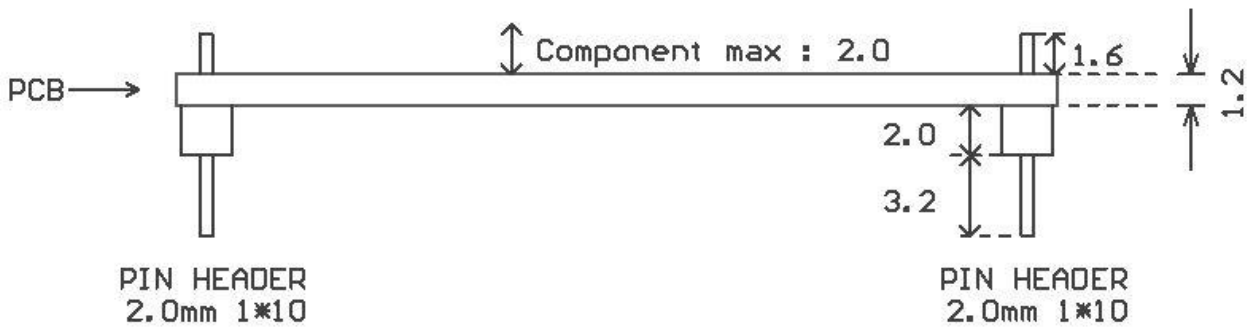
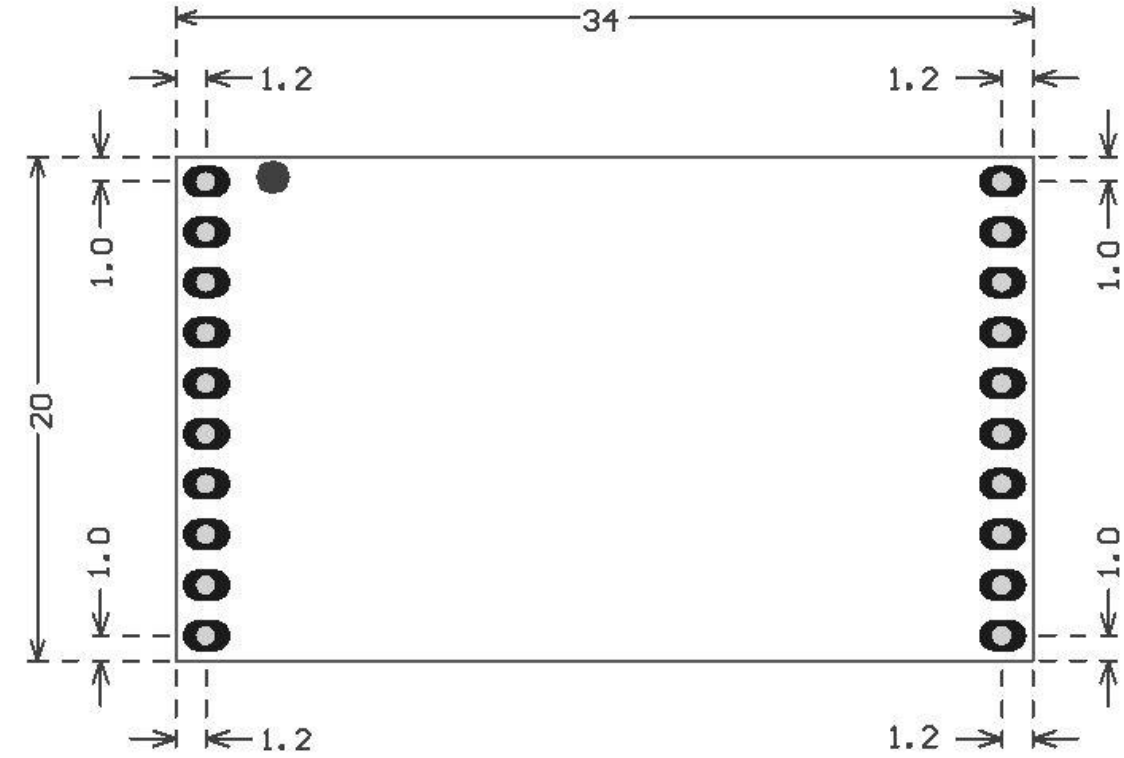
15	CT	O	2.0V For Transformer Center Type
16	GND	-	Ground
17	LED R	O	Communication Quality Status Red LED *Note 1
18	LED G	O	Communication Quality Status Green LED *Note 1
19	ETH LED	O	Ethernet Status LED
20	Reset KEY	I	Pairing / Reset Key 1 ~ 3 Sec. : Pairing 5 ~ 7 Sec. : Remove Pairing 10 ~ 14 Sec. : Reset

\*Note 1 : PIN 17 & PIN 18 Using Dual color LED ( Red / Green )  
to Indicate Communication Quality Status as below table :

Red LED	Green LED	Communication Quality
OFF	ON	Good
ON	ON	Poor
ON	OFF	Bad
OFF	OFF	Fail ( No Link )

# 5. Mechanical Specification

## 5.1 Dimension



Unit : mm

# 6. Application Circuit

