

# ADP-PD

## **PoE<sup>+</sup> Module**

## **User's Manual**

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## **Packing List:**

Please check the package content before you starting using the adapter.



1 x ADP-PD-5V or ADP-PD-12V BADPPD-5V\_A(4120032011) / BADPPD-12V\_A(4120032021)



1 x DC Output Power Cable (OALDC-DC3/1040614)



For use with COMMELL motherboard LP-176

1 x CN\_LAN Cable (OALPOE-01/1040627)<mark>Optional</mark>



1 x CN\_LAN Cable (OALPOE-02/1040628)Optional

For use with COMMELL Mini card MPX-350



1 x CN\_LAN Cable (OALPOE-03/1040629)<mark>Optional</mark>



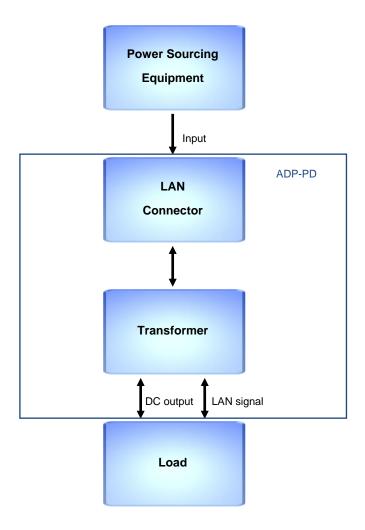
1. < Product Specification

## Product Description

	RJ45 for connecting with PSE		
Interface	Internal 12-pin head for connecting with powered board		
	Internal 2-pin terminal block for DC power of powered board		
	DC Output Power Cable		
Accessories	Cable (connect LP-176 to Motherboard)(OALPOE-01/1040627)Optional		
Accessories	Cable (connect MPX350 to Mini card)(OALPOE-02/1040628)Optional		
	Cable (connect MPX210 to Mini card)(OALPOE-03/1040629)Optional		
Dimensions (L x W )	70.00mm x 40.00mm		
<b>Operating Cond</b>	litions		
Power Requirement	Port Voltage 37V to 57V from PSE		
Temperature	-40~+125°C		
General Specifi	cations		
Compliance	IEEE802.3at/af		
Ordering Code	ADP-PD-5V : IEEE802.3at/af compliant with DC output 5V/4.7A		
Ordering Code	ADP-PD-12V : IEEE802.3at/af compliant with DC output 12V/1.9A		

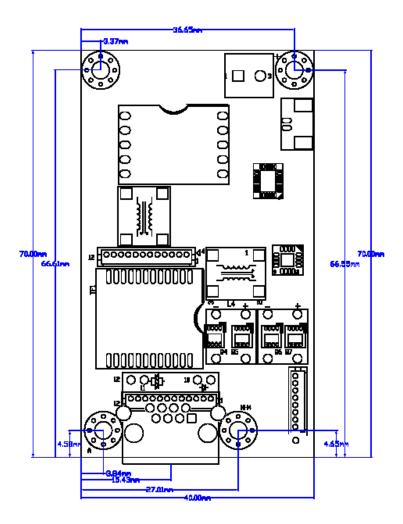


## 2. < Block Diagram >



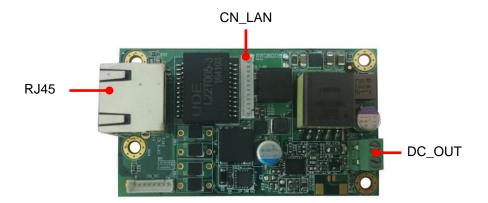


## 3. < Mechanical Drawing >





## 4. < Connector Location and Reference >



Connector	Function
CN_LAN	12-pin Ethernet Connector
RJ45	RJ-45 LAN Port
DC_OUT	2-pin power output with Terminal Block

#### LAN Connector : RJ45

**Connector Type:** 

16-pin (8 x 2) 2.0 x 2.0 mm header

#### RJ45 10/100/1000Mbps connector



Pin	Description	Pin	Description
1	MI0+	2	MIO-
3	MI1+	4	MI2+
5	MI2-	6	MI1-
7	MI3+	8	MI3-
9	LINKLED	10	ACTLED
11	LINK100	12	LINK1000
13	GND	14	GND



### Connector : CN\_LAN

Connector Type:

12-pin (12 x 1) , pitch : 1.25 mm ,DIP type



Straight P.C.B Connector

Pin	Description	Pin	Description
1	ACTLED	2	LINK0
3	RTD0+	4	RTD0-
5	RTD1+	6	RTD1-
7	RTD2+	8	RTD2-
9	RTD3+	10	RTD3-
11	LINK1H	12	LINK1G

#### Connector : DC\_OUT

**Connector Type:** 

2-pin (2 x 1) , pitch : 3.81 mm

Straight P.C.B Connector

Pin	Description	Pin	Description
1	GND	2	Power output

For ADP-PD-5V , PIN2 with +5V/4.7A Output

For ADP-PD-12V , PIN2 with +12V/1.9A Output







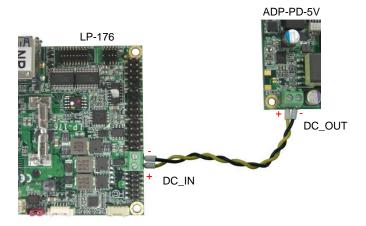
5. < ADP-PD Installation Guide >

Following implement to use ADP-PD with "COMMELL's PICO M/B(LP-173 or

LP-176) for complies as PoE Power Device.

1. DC cable connection between ADP-PD and Motherboard

(Connect ADP-PD-5V "CN\_OUT" to LP-176 "DC\_IN").



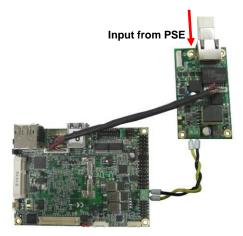
2-2. Plug PoE cable(OALPOE-01) to LP-176 and ADP-PD .







2-3. Connect RJ45 connector from PSE to ADP-PD via LAN cable .



- 3. The procedures shows how assembly COMMELL's Mini\_PCIe LAN Card(<u>MPX-350</u> \ <u>MPX-210</u>) on "COMMELL's PICO M/B(LP-173 or LP-176)
- 3-1. Insert COMMELL Mini\_PCIe LAN Card(MPX-210) on Motherboard.



3-2.Plug PoE cable(OALPOE-03) to MPX-210 and ADP-PD , refer step 1 for DC connection , then ready for use .







## **Contact information**

Any advice or comment about our products and service, or anything we can help you please don't hesitate to contact with us. We will do our best to support you for your products, projects and business.

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