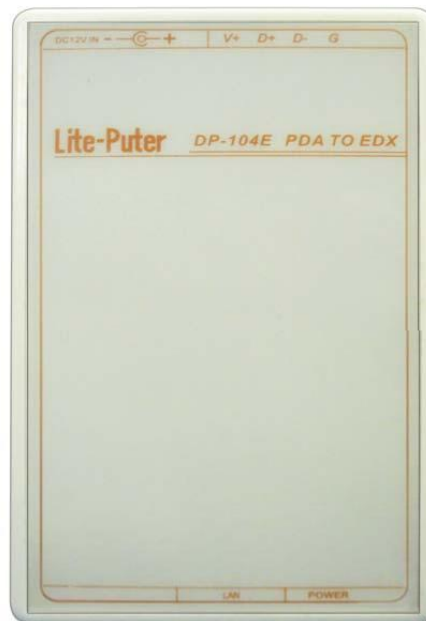


DP-104E

Ethernet to EDX Interface

【User Manual】



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Chapter 1 Introduction

1-1 Function

Ethernet to EDX interface

1-2 Specification

- 1、 Power input: DC 9-12V
- 2、 Protocol: EDX (RS-485)
- 3、 Signal connector: 4 Pin green terminal
- 4、 Dimension: 100 (W) *25 (H) *60 (D) mm
- 5、 Weight: 92g

1-3 Dimensions



1-4 Panel Introductions

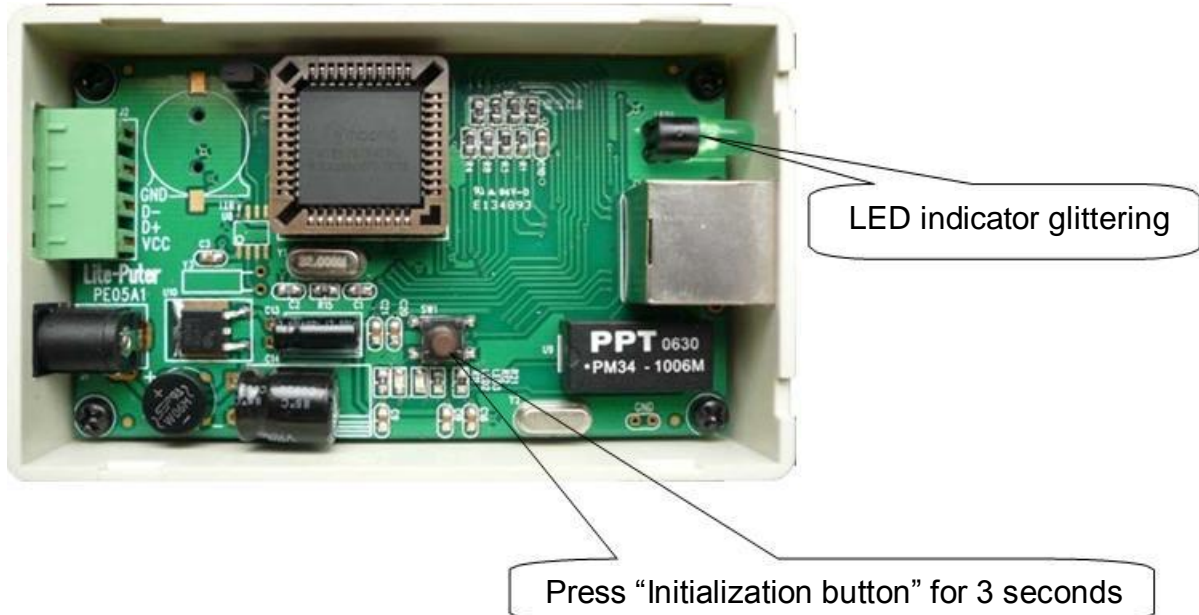


1	LAN port	2	LED indicator
3	4 Pin green terminal: signal output	4	Power input: DC 9-12V

Chapter 2 Operation Description

2-1 Equipment Initialization

Open the cover and hold the “initialization button” for 3 seconds.



After initialization , IP address is 192.168.0.201.

2-2 Handshaking signal

DP-104E port NO. is 56113.

Handshaking signal of DP-104E is : 55H + AAH + 01H + 00H + 05H

Note: the data in the manual is all decimal and the data end with H is hexadecimal.

2-3 IP Setting

The user can send order as below to set IP address:

55H + AAH + 02H + 00H + IP addr. **【0 : 3】**

Ex1: setting IP address of DP-104E as 192.168.3.211, the user can send order:

55H + AAH + 02H + 00H + C0H + A8H + 03H + D3H

2-4 MAC Address Setting

The user can send order as below to set MAC address:

55H + AAH + 02H + 02H + R/W + MAC address **【0 : 5】**

In which , R/W = 1, means getting MAC address;

R/W = 0, means setting MAC address.

The user can send order as below to get MAC address of DP-104E:

55H + AAH + 02H + 02H + 01H

If MAC address is 00H 1AH 73H 18H A0H 2AH, the current MAC address will be sent back:

55H + AAH + 02H + 02H + 01H + 00H + 1AH + 73H + 18H + A0H + 2AH

Ex2: setting MAC address of DP-104E is 00H 04H 05H 00H 04H 24H, the user can send order:

55H + AAH + 02H + 02H + 00H + 00H + 04H + 05H + 00H + 04H + 24H

2-5 Gateway Setting

The user can send order to set Gateway:

55H + AAH + 02H + 03H + R/W + GW **【0 : 3】**

In which , R/W = 1, means getting Gateway;

R/W = 0, means setting Gateway.

Ex1: getting Gateway of DP-104E, the user can send order:

55H + AAH + 02H + 03H + 01H

The current Gateway can be sent back, if the Gateway is 192.168.0.1, the order is sent back as below:

55H + AAH + 02H + 03H + 01H + C0H + A8H + 00H + 01H

Ex2: setting Gateway of DP-104E as 192.168.3.1, the user can send order:

55H + AAH + 02H + 03H + 00H + C0H + A8H + 03H + 01H

2-6 Password Setting

The user can send order to set password:

55H + AAH + 02H + 04H + R/W + PW 【0 : 5】

In which , R/W = 1, means getting password;

R/W = 0, means setting password.

Ex1: getting the password of DP-104E , the user can send order:

55H + AAH + 02H + 04H + 01H

The current password can be sent back, if the password is 000000 , the order is sent back as below:

55H + AAH + 02H + 04H + 01H + 00H + 00H + 00H + 00H + 00H + 00H

Ex2: setting the password of DP-104E as 789456, the user can send order:

55H + AAH + 02H + 04H + 00H + 07H + 08H + 09H + 04H + 05H + 06H

Chapter 3 Function Test

3-1 Scene Recall

The user can send order to recall scene:

55H + AAH + 03H + 00H + 00H + 80H + ZONE + 13H + SCENE + 86H + 00H + 05H

In which :

ZONE : setting range is 1-99.

SCENE : SCENE = FFH, means requiring the current scene number to be sent back.

Ex1: Zone of EDX is 1, when recalling Scene 4, the user can send order:

55H + AAH + 03H + 00H + 00H + 80H + 01H + 13H + 04H + 86H + 00H + 05H

Ex2: The current scene number is required to be sent back, the user can send order:

55H + AAH + 03H + 00H + 00H + 80H + 01H + 13H + FFH + 86H + 00H + 05H

The current scene number can be sent back, if the scene is 2, the order is sent back as below:

55H + AAH + 03H + 00H + 00H + 81H + 01H + 13H + 02H + 86H + 00H + 05H

3-2 Scene Save

The user can send order to save scene:

55H + AAH + 03H + 00H + 00H + 80H + ZONE + 23H + SCENE + 00H + 00H + 05H

For instance, Zone of EDX is 2, when saving the current state as scene 6, the user can send order:

55H + AAH + 03H + 00H + 00H + 80H + 02H + 23H + 06H + 00H + 00H + 05H

3-3 Dimming value of Single Channel Setting

The user can send order to set dimming value:

55H + AAH + 03H + 00H + 00H + 80H + ZONE + 43H + CH_L + CH_H + LEVEL + 05H

In which, CH_H.7 = 1 , means getting dimming value;

CH_H.7 = 0 , means modifying dimming value;

CH_L : means low byte of channel address;

CH_H : means high byte of channel address;

LEVEL : means dimming value.

EX1: Zone of EDX is 2, when getting the dimming value of channel 6, the user can send order:

55H + AAH + 03H + 00H + 00H + 80H + 02H + 43H + 06H + 80H + 00H + 05H

The dimming value of current channel can be sent back, if the dimming value of channel 6 is 62%, the order is sent back as below:

55H + AAH + 03H + 00H + 00H + 81H + 02H + 43H + 06H + 00H + A0H + 05H

Ex2: Zone of EDX is 2, when setting the dimming value of channel 1 as 50%, the user can send order:

55H + AAH + 03H + 00H + 00H + 80H + 02H + 43H + 01H + 00H + 80H + 05H

Note for changing of dimming value

Hexadecimal dimming value: percentage dimming value X%, corresponding decimal data is $255/100 * X$, and switch it to Hexadecimal value, which is dimming

value in order.

Dimming value → **percentage value**: $Y/255*100\%$, Y= corresponding decimal data to hexadecimal value.

3-4 Adjusting Dimming Value of Channel

1. Increase dimming value

The user can send order to increase dimming value:

55H + AAH + 03H + 00H + 00H + 80H + ZONE + 32H + CH_L + CH_H + 05H

In which , CH_H.7 = 1, means increasing dimming value of single channel;

CH_H = 00H, means increasing dimming value of all channel;

Ex1, Zone of EDX is 2, when increasing the dimming value of channel 3, the user can send order:

55H + AAH + 03H + 00H + 00H + 80H + 02H + 32H + 03H + 80H + 05H

Ex2, Zone of EDX is 2, when increasing the dimming value of all channel, the user can send order:

55H + AAH + 03H + 00H + 00H + 80H + 02H + 32H + 00H + 00H + 05H

2. Reduce dimming value

The user can send order to reduce dimming value:

55H + AAH + 03H + 00H + 00H + 80H + ZONE + 42H + CH_L + CH_H + 05H

In which, CH_H.7 = 1, means reducing dimming value of single channel;

CH_H = 00H, means reducing dimming value of all channel;

Ex1, Zone of EDX is 2, when reducing the dimming value of channel 3, the user can send order:

55H + AAH + 03H + 00H + 00H + 80H + 02H + 42H + 03H + 80H + 05H

Ex2, Zone of EDX is 2, when reducing the dimming value of all channel, the user can send order:

55H + AAH + 03H + 00H + 00H + 80H + 02H + 42H + 00H + 00H + 05H

Limited Warranty

1. Lite-Puter is only responsible for the product itself.
2. Lite-Puter guarantees to keep Lite-Puter's from manufacturing defects within a year since the distributing date.
3. Lite-Puter does not offer on-site service. If the defects appears
In Lite-Puter's product, please deliver the product to local distributors or to Taipei headquarters.
4. The warranty does not cover:
 - a. Any fault caused by false usage, imprudence (collision, inadequate installation or adjustment, insufficient ventilation, or improper repairs)
 - b. Force majeure factors (flooding, earthquake, thunder, volcanic eruption, tsunami or other factors beyond Lite-Puter control).
 - c. The cost of installing, reinstalling, adjusting, repairing, or reprogramming the product.
 - d. Other products or devices which are offered by Lite-Puter or not by Lite-Puter.
5. Lite-Puter does not warrant the product will operate without interruption or being free of error.

Revision Record

Version	Record
A	First version
B	Add Protocol

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