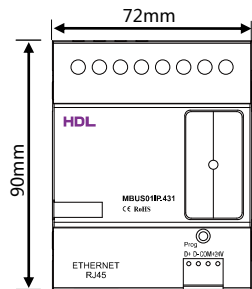
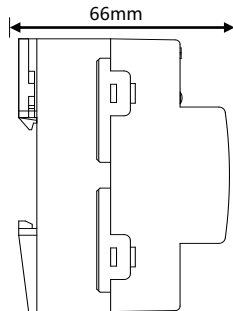
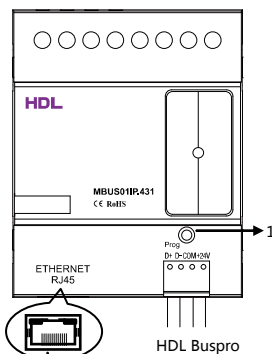


Figure 1. 1 Port Programming Gateway
图 1. 1端口交换机Figure 2. Dimensions - Front View
图 2. 尺寸图 - 正面Figure 3. Dimensions - Side View
图 3. 尺寸图 - 侧面RJ45 connection: UDP/IP interface
Figure 4. Components - Front View
图 4. 部件 - 正面图

Overview

1 Port Programming Gateway (See Figure 1) is a gateway between HDL Buspro system and Ethernet which enables bidirectional data exchange between HDL Buspro and Ethernet.

Functions

- Bidirectional data exchange between HDL Buspro and Ethernet.
- Supports local control (default), p2p control, and remote control
- Up to 4 devices (iPad, iPhone, Touchlife, HDL Buspro software, etc.) connection supported for remote control
- Smart data exchange for reducing data traffic
- Communication: HDL Buspro, IP network.

Important Notes

- Buspro cable - CAT5E/HDL Buspro/KNX cable.
- Buspro connection - Series connection (hand-in-hand recommended).
- Make sure that MAC and IP address of all IP devices are unique in the same IP segment.

Product Information

Dimensions - See Figure 2 - 3

Components - See Figure 4

1. Programming button and indicator: The indicator flashes in green when the module is working properly.

Press the button for 10s, default factory setting will be restored when indicator turns to red

Default setting parameters:

IP: 192.168.10.250

ROUTER IP: 192.168.10.1

Port: 6000

Network Parameter Setting:

1 Port Programming Gateway default IP: 192.168.10.250, port 6000. Please modify the IP address of user PC into the same IP segment of gateway the following steps:

- Modify the IP address of user PC into 192.168.10.** (** may be any value).
- Search for the device in HDL Buspro Setup Tool and modify the IP address into the same IP segment of user PC, then press "save". (Subnet mask, router IP and MAC can be modified in this step)
- Change the user PC IP to the original one.
- Turn off the device and the new IP address will be available after restart.

Installation - See Figure 5 - 7

Step 1. Fix the din rail with screws.

Step 2. Buckle the bottom cap of the 1 Port Programming Gateway on the edge of the din rail.

Step 3. Press the device on the din rail, slide it and fix it up until an appropriate position is adjusted.

Safety Precautions



- The installation and commissioning of the device must be carried out by HDL or the organization designated by HDL. For planning and construction of electric installations, the relevant guidelines, regulations and standards of the respective country are to be considered.
- The device should be installed with Din rail in DB box. HDL does not take responsibility for all the consequences caused by installation and wire connection that are not in accordance with this document.
- Please do not privately disassemble the device or change components, otherwise it may cause mechanical failure, electric shock, fire or body injury.
- Please resort to our customer service department or designated agencies for maintenance service. The warranty is not applicable for the product fault caused by private disassembly.

Package Contents

HDL-MBUS01IP.431*1 / Buspro connector*1 / Label*5 / Datasheet*1

产品概述

1端口交换机 (见图1) 是HDL Buspro系统与以太网的网关。它可实现HDL Buspro总线与以太网双向智能数据交换。

功能说明

- HDL Buspro与以太网双向智能数据交换
- 实现本地控制, 点对点控制, 远程控制 (出厂默认为本地控制)
- 远程控制时, 同时最多允许4个终端访问控制, 终端包括 Ipad, iphone, touchlife, HDL Buspro software, 等等
- 智能数据交换, 减小数据流量
- 通信方式: HDL Buspro, IP 网络

注意事项

- **总线** - CAT5E或者HDL Buspro/KNX 专用电缆
- **总线连接** - 推荐使用手拉手的连接方式
- 必须保证网络上所有IP设备的网络MAC唯一及IP地址唯一, 需要通讯的各IP设备必须要在同一网段内

产品信息

产品尺寸 - 见图 2 和 3

部件 - 见图 4

1. 编程按钮&指示灯: 正常工作时绿灯闪烁。

按住10秒红色指示灯亮, 模块恢复出厂。

复位后出厂网络参数为:

IP: 192.168.10.250

路由IP: 192.168.10.1

端口: 6000

网络参数设置:

交换机的出厂IP为192.168.10.250, IP端口为6000。如果IP与用户PC服务器的IP段不相同, 需要把交换机的IP改为与PC服务器相同才能使用。

修改步骤:

- 修改PC服务器的IP段为192.168.10.** (**为任意值)。
- 在HDL Buspro软件中搜索到交换机, 然后修改交换机IP, 以及子网掩码、路由IP、MAC (是唯一的)。点击“储存”后退出。
- 修改PC服务器IP到之前的IP地址。
- 关闭设备电源。设备重启后IP地址将会更新。

设备的安装 - 见图 5-7

步骤1. 用螺丝固定丁导轨。

步骤2. 将1端口交换机底盖的一端扣上导轨的边上。

步骤3. 将整个模块压到导轨上, 并滑动模块直至调整到合适的位置则固定下来。

安全警告



- 本设备的安装及调试工作必须由我司或我司指派的机构进行。其电气安装的计划和施工, 必须遵守当地相关的安全标准和法规。
- 该产品需以丁轨安装方式, 安装在电箱里, 未按照本说明书进行安装及接线方式的, 所造成的一切后果皆与我司无关。
- 请不要私自拆装或更换零部件, 否则可能会导致机械故障、电击、火灾或身体伤害。
- 请将一切维修工作交由我司售后部门或指定机构进行, 本产品的保修范围不适用于因用户拆卸产品而导致的故障。

装箱清单

HDL-MBUS01IP.431*1 / 总线端子*1 / 标签纸*5 / 说明书*1



Figure 5 / 图 5

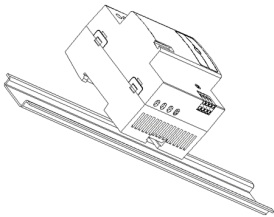


Figure 6 / 图 6

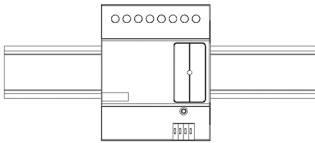


Figure 7 / 图 7

Figure 5 – 7. Installation
图 5 – 7. 安装图

技术支持
服务热线：020-85820195
(工作时间：9:00-12:00, 13:00-18:00, 星期一至星期五)
邮箱：kfb@hdlchina.com.cn
网址：http://www.hdlchina.com

Technical support
E-mail: support@hdlchina.com.cn
Website: https://www.hdlautomation.com

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Specifications subject to change without notice.

EN

Technical Data

Electrical Parameters	
Working voltage	12~30V DC
Working current	40mA/24V DC
Communication	HDL Buspro
RJ45 connection	RJ45-UDP/IP network interface

External Environment	
Working temperature	-5°C~45°C
Working relative humidity	≤90%
Storage temperature	-20°C~60°C
Storage relative humidity	≤93%

Specifications	
Dimensions	72mm×90mm×66mm
Net weight	124g
Housing material	Nylon
Installation	35mm DIN rail installation (See Figure 5 - 7)
Protection rating (Compliant with EN 60529)	IP20

Name and Content of Hazardous Substances in Products						
Components	Hazardous substances					
	Lead (Pb)	Mercury (Hg)	Cadmium (Cd)	Chromium VI (Cr (VI))	Poly-brominated biphenyls (PBB)	Poly-brominated diphenyl ethers (PBDE)
Plastic	o	o	o	o	o	o
Hardware	o	o	o	o	-	-
Screw	o	o	o	x	-	-
Solder	x	o	o	o	-	-
PCB	x	o	o	o	o	o
IC	o	o	o	o	x	x

The symbol “-” indicates that the hazardous substance is not contained.
The symbol “o” indicates that the content of the hazardous substances in all the homogeneous materials of the component is below the limit requirement specified in the Standard IEC62321-2015.
The symbol “x” indicates that the content of the hazardous substance in at least one of the homogeneous materials of the part exceeds the limit requirement specified in the Standard IEC62321-2015.

HDL Buspro Cable Guide

HDL Buspro	HDL Buspro/KNX	CAT5/CAT5E
COM	Black	Brown White/Orange White
DATA-	White	Blue White/Green White
DATA+	Yellow	Blue/Green
24V DC	Red	Brown/Orange

ZH

技术参数

电气参数	
工作电压	12~30V DC
工作电流	40mA/24V DC
通信协议	HDL Buspro
RJ45 连接	RJ45-UDP/IP网络接口

外部环境	
工作温度	-5°C~45°C
工作相对湿度	≤90%
储存温度	-20°C~60°C
储存相对湿度	≤93%

产品规格	
尺寸	72mm×90mm×66mm
净重	124g
外壳材料	尼龙
安装方式	35mm 丁导轨安装 (见图5-7)
防护级别 (符合 EN 60529)	IP20

产品中有害物质的名称及含量						
部件名称	有害物质					
	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr (VI))	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
塑胶组件	o	o	o	o	o	o
五金铜件	o	o	o	o	-	-
螺丝组件	o	o	o	x	-	-
焊锡	x	o	o	o	-	-
PCB组件	x	o	o	o	o	o
IC	o	o	o	o	x	x

- : 表示不含有该有害物质。
o : 表示该有害物质在该部件所有均质材料中的含量均在IEC62321-2015规定的限量要求以下。
x : 表示该有害物质至少在该部件的某一均质材料中的含量超出IEC62321-2015规定的限量要求。

HDL Buspro 总线定义

HDL Buspro	HDL Buspro/KNX	CAT5/CAT5E
COM	黑	棕白/橙白
DATA-	白	蓝白/绿白
DATA+	黄	蓝/绿
24V DC	红	棕/橙