

## Features

DIN-Rail Mount BUS/RS232 Module, support sending up to 1980, receive up to 99 ASCII and/or HEX strings, work in all Baud Rates.

- 2 way Fixed HDL-BUS ASCII protocol from and to RS232
- Support ASCII code editing and Hexadecimal
- 24 Characters ASCII length.
- RS232 interface work in all baud rate: 2400, 4800, 9600, 14400, 19200, 38400, 57600, 115200 bps
- Send And Receive ASCII command
- 2 way communication that can receive up to 99 ASCII, HEX to do different 20 commands for each message
- Ready integrated with many Music System and Home Technology Brands.

## Important Notes

- **Bus cable** - CAT5E or HDL Bus/KNX
- **Bus connection** - Recommend connection of Bus wire hand by hand
- **RS232** - 9 Pin D-shaped socket, 2 pin is receive ,3 pin is send ,5 is GND.
- **Check Connections** – Re-tighten all connections after installation.
- **Baud Rates** – Choose matching baud rate.
- **Custom protocol** - need custom made protocol for specific device if the standard protocol not compatible with RS232 device

## Installation Steps

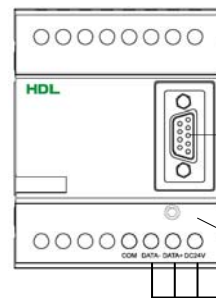
- Mount the device on a DIN rail of DB or other location
- Make sure the Bus cable type is correct and has no circuit short
- Connect bus cables. Make sure the color of wire same as definition
- Confirm RS232 cable connect to module is correct for RX,TX, COM

## Product Specifications

- Bus Power Supply : DC15~30V
- Bus Power Consumption : 15mA@DC 24V
- Baud rate: 2400, 4800, 9600, 14400, 19200, 38400, 57600, 115200 bps
- Data Bit : 8
- Stop Bit: 1
- Communication: HDL-BUS / RS232
- Dimension : 72mm×90mm×66mm
- CE approved
- IP Protection: IP20
- Working Temperature: 0℃ ~ +45℃
- Working Relative Humidity: 20% - 90%
- Storage Temperature: -40℃- +55℃
- Storage Relative Humidity: 10% - 93%

## Types

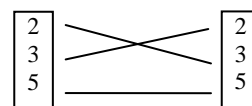
### SB-DN - RS232N



RS232 serial : 9 Pin D-shaped socket  
Connections rules with other device's  
RS232 signal (2 pin and 3 pin cross connected to each other , 5 pin connected directly ) as below

Indicator, it will flash when working fine, keep pressing for 3 seconds, can modify the ID in HDL-Bus software

HDL-Bus interface



RS232 Cable



The interface is connect to PC standard.

## HDL-Bus Definition for cable

CAT5/CAT5E	Bus	HDL Bus/KNX Cable
Brown White/ Orange White	COM	Black
Blue White /Green White	DATA-	White
Blue/Green	DATA+	Yellow
Brown/ Orange	DC24V	Red



WARNING

## Safety Attention

- The tightening torque do not exceed 0.4Nm
- Do not make wrong connection on Bus interface, it will damage the Bus interface
- Avoid the rain or water into module, it will damage this devices
- Do not get AC220V voltage into Bus and RS232 cable wire , it will damage all of devices in system