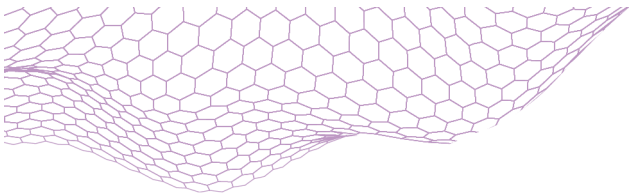




# RS485 ISOLATED HUB

## MODEL DDSH I 4 TD





## SYNOPSIS

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- SUPPORT 1 RS-232/485 UPPER COMPUTER PORT, AND 4 RS-485 LOWER COMPUTER PORT
- EACH LOWER COMPUTER PORT CAN CONNECT TO 32 STANDARD RS-485 DEVICES(NODES)
- SUPPORT CASCADING OF MULTIPLE DDISH I 4 TD, UP TO 256 RS-485 BUSES
- AUTOMATIC SERIAL PORT SIGNAL RATE DETECTION, SUPPORT 300BPS~115200BPS SERIAL PORT BAUD RATE, ZERO DELAY CONVERSIONS
- SERIAL PORT PROVIDES 15KV ELECTROSTATIC PROTECTION AND 2KVAC ISOLATION PROTECTION
- UNIQUE AUTOMATIC DETECTION AND ALARM OF RS-485 SIGNAL REVERSE CONNECTION

## SPECIFICATIONS

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### Serial Port

Standard: EIA RS-232C, RS-485

Serial port quantity: upper computer port, 1 RS-232/485 serial port ;

lower computer port, 4 RS-485 serial ports

RS-232 signal: TXD, RXD, GND

RS-485 signal: D+, D-, GND

Baud rate: 300bps~115200bps

Data bit: 5bit, 6bit, 7bit, 8bit

Stop bit: 1bit, 1.5bit, 2bit

Check bit: None, Odd, Even, Mask, Space

Interface form: upper computer port (RS-232/485),

adopts 5-pin 5.08mm pitch terminal blocks ;

lower computer port(RS-485), adopts 10-pin 5.08mm pitch terminal blocks

Transmission distance: RS-232 serial port, 15m ;

RS-485 serial port, 1200m

Direction control: RS-485 adopts automatic data flow control

technology, which could detect and control the direction of data flow

Load capacity: RS-485 supports 32-point polling environment

Interface protection: 15kV electrostatic protection, 2kVAC isolation

protection

### LED Indicator

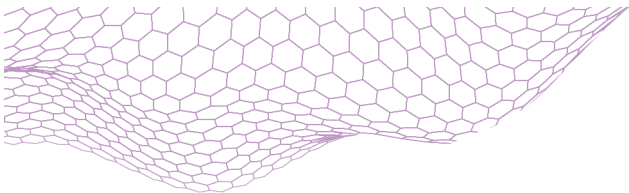
Power Supply Indicator, serial port data sending/receiving indicator,

lower computer serial port indicator

### Power Requirement

12~48VDC, 3-pin 7.62mm pitch terminal blocks ;

Power supply supports non-polarity



|                         |                                                                                                                                                                                                                                                      |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Power Consumption       | No-load: 0.696W@24VDC<br>Full-load: 0.696W@24VDC                                                                                                                                                                                                     |
| Environmental Limit     | Operating temperature: -40~75°C<br>Storage temperature: -40~85°C<br>Relative humidity: 5%~95%(no condensation)                                                                                                                                       |
| Physical Characteristic | Housing: metal, IP40 protection<br>Installation: DIN-Rail mounting<br>Dimension (W x H x D): 35mm×110mm×95mm<br>weight: 384.8g                                                                                                                       |
| Industrial Standard     | IEC 61000-4-2 (ESD, electrostatic discharge), Level 4<br>Air discharge: ±15kV<br>Contact discharge: ±8kV<br><br>IEC 61000-4-3 (RS, radiofrequency electromagnetic radiated immunity), Level 2<br>☒ Test level: 3V/m<br>☒ Frequency range: 80MHz-1GHz |
| Tested for              | CE, FCC, RoHS                                                                                                                                                                                                                                        |

## ORDERING CODE

DDSH I/NI 4 TD

|      |                                 |
|------|---------------------------------|
| DDSH | Base Model                      |
| I/NI | I: Isolated<br>NI: Non Isolated |
| 4    | 4 * Serial Input Ports          |
| TD   | Fixed                           |