

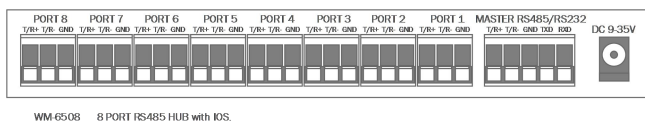


# DT-9028I

## Industrial grade

## Eight port RS485 HUB

## manual



## Main characteristics

- 1、The main branch of RS485 RS232/RS485, eight
- 2、The RS485 data to provide data collision protection control DCPC function
- 3、The baud rate adaptive
- 4、LED indicates power and signal state
- 5、Each port to provide a large capacity 256 nodes
- 6、The main RS232 port protection: 15KV ESD
- 7、Primary and secondary RS485 port with two levels of lightning protection, surge, lightning protection, and every line of 2000W
- 8、Each branch with short circuit, open circuit protection function, does not affect the other branch of online communication
- 9、Two-way conversion between main and branch port
- 10、Branch rate as high as 250Kbps
- 11、High anti-interference design
- 12、Wide voltage input design: DC 9-40V, DC 9-60V can be

customized

## One introduction

DT-9028I is a universal industrial eight port RS485 hub with adaptive, a RS232/RS485 port, a RS485 hub designed specifically for RS485 transmission distance and large capacity serial communication network expansion. DTECH has a number of independent innovation of technology, including the built-in data collision protection control.

RS485 hub DT-9028I principle of work: data sent through the main port to send to each branch (PORT1~PORT8). The data received and sent to the main ports in the branch, the other branch will not receive the signal.

DT-9028I has the advantages of high speed isolation protection and DC regulated power supply protection, short circuit protection also has a RS485 port and open circuit protection function, namely, 8 high-speed channel, a channel because of the damage caused by the RS485 terminal short circuit or open circuit, communication failure, the internal circuit will

automatically block the channel, the other channel is not affected by effect, and keep the normal communication.

The main physical interface converter and data lines are the copper material, can guarantee the stability of the communication, special circuit design can effectively shield the interference.

## Two specifications

### 1, communication:

**The main RS232 signal:** TX RX GND

**Primary / secondary RS485 signal:** the signals of group T/R+ (A) T/R- (B) / copper with screw terminals

**Support:** support for each number of terminals to connect 256 RS485 node;

**Transmission distance:** the theoretical value of 1.5km, 9600k/s test

**RS485 data collision protection control:** DCPC

**Protection:** RS232 end 15KV ESD serial port; RS485 Transient Voltage Suppressors of TVS, each 2000W line lightning protection, photoelectric isolation

**Working temperature:** -25-65 degrees

**Storage temperature:** -20-75 degrees

**Operating humidity:** 5-95%RH

**Power supply:** 9-40 VDC 1Ma

**Power consumption:** 500Ma@9V

### 2, mechanical properties

**Size (W \* D \* H):** 208\*135\*31

Shell: galvanized iron, fuel injection

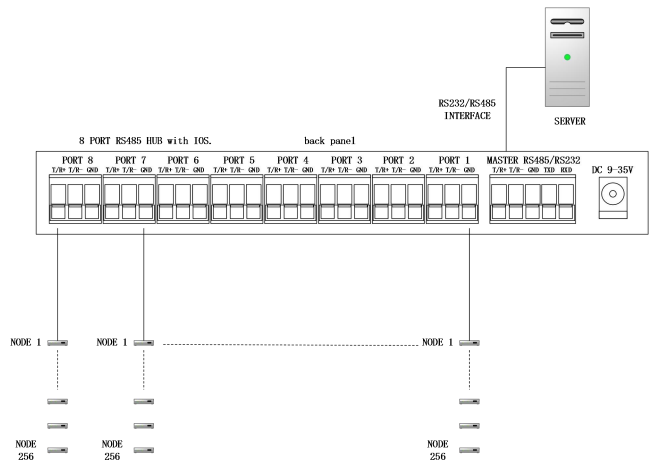
Weight: 950g

Certification: CE FCC

Warranty period: 5 years

Three, network applications

1, the RS485 hub star network application



Note:

- 1, the connection of multiple RS485 terminal, make the best of the load average;
- 2, using the RS485 direct connection, namely the T/R+ terminal of the T/R+ converter, the converter connected to T/R- terminal of T/R-.

Four, the data interface lead sheet

1, branch port terminal signal interface definition

From left to right	Identification	Definition
1	T/R+	PORT1
2	T/R-	
3	GND	
3	T/R+	PORT2
4	T/R-	
5	GND	
6	T/R+	PORT3
7	T/R-	
8	GND	
9	T/R+	PORT4
10	T/R-	
11	GND	
12	T/R+	PORT5
13	T/R-	
14	GND	
15	T/R+	PORT6
16	T/R-	
17	GND	
18	T/R+	PORT7
19	T/R-	
20	GND	
21	T/R+	PORT8
22	T/R-	
23	GND	

2, the master port terminal signal

interface definition

从左至右	标示	定义
1	T/R+	RS485 A
2	T/R-	RS485 B
3	GND	信号地
4	TXD	RS232 TXD
5	RXD	RS232 RXD

Five, the product parts list

index	Product name	Unit	num
1	HUB DT-9028I	PIC	1
2	DATA CABLE	PIC	SELECTION
3	DC ADAPTOR 9V	PIC	SELECTION
4		PIC	1
5	Manual	PIC	1

Note: equipment with equipment protection ground connection clip, must be connected to the building's protection to row, or because of lightning strikes cause equipment damage, the company shall not be responsible for.

