

# **U2485DB-I**

**Universal RS232 or RS422/RS485 input to**

**Ground Isolated RS232 or RS422/485 Isolator & Converter.**

Double barrier Isolated feature

Input, Output and Power **triple isolated feature** to break Ground loop



- ★ Port A(RS232) to Port B(RS232) as **RS232 GROUND isolator**.
- ★ Port A(RS232) to Port C(RS422/RS485) as **interface converter**.
- ★ Port D(RS422/RS485) to Port C(RS422/RS485) as **repeater** or **Bridge**.
- ★ **Double Barrier Isolated** Feature between input and output connector.
- ★ **Triple way Isolation** to break any Ground loop and stray current.
- ★ Full-duplex RS422 or Half-Duplex RS485 interface set by DIP switch
- ★ Each connector with data transmission LED indicator

## **U2485DB-I specifications :**

### **RS232 interface :**

- ◆ Connector type : DB9 male connector.
- ◆ Number of ports : 2

*NOTE : port A is RS232 input to work with Port D.*

*NOTE : port B is RS232 output to work with port C..*

### **Interface type setting :**

- ◆ Use one 4 bit DIP switch to set for RS422 (ON) or RS485 (OFF) interface. Bit 1 is for port A(no use here), bit 2 for port B(no use here), bit 3 for port C, bit4 for port D.

### **Power input :**

- \*UP110/UP220 US/EU type power adaptor
- \*100--240 VAC input.
- \*5VDC 1000mA output.
- \*Current consumption: 400mA @ 5VDC.

### **Environment :**

- ◆ operating temperature : 0°C to 55°C .
- ◆ operating humidity : 0% to 95% RH.
- ◆ storage temperature : 0°C to 65°C .
- ◆ storage humidity : 5% to 95% RH.

### **RS422/485 interface :**

- ◆ Connector type : DB9 male connector.
- ◆ Number of ports : 2

**Note: port D is input to work with port A.**

**Note: port C is output to work with port B.**

*NOTE : RS422 or RS485 interface type set by DIP switch.*

*NOTE : each port with isolated signal ground.*

*NOTE : each port with 5 signal pin TX+ , TX- , RX+ , RX- , isolated GND.*

*NOTE : In RS485 interface type support*

*Auto-Data-Direction-Control feature. Pin 2 and pin3 is shorted as Data+ signal. Pin4 and pin6 is shorted as Data- signal. Can work with TB485 module to exchange DB9 to 3pin terminal block.*

### **LED indicator :**

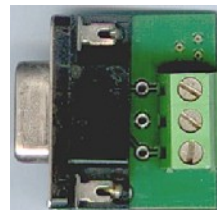
- ◆ Power : DC power input ON indicator.
- ◆ AT/RX : RS232 port A TX/RX signal activity.
- ◆ BT/RX : RS232 port B TX/RX signal activity.
- ◆ CT/RX : RS485 port C TX/RX signal activity.
- ◆ DT/RX : RS485 port D TX/RX signal activity.

### **Dimension :**

- ◆ U2485DB-I box :  
90mm (W) \* 150mm (L) \* 27mm(H)

## **Accessories :**

**TB485 : DB9 Female to RS485 terminal block kit.**



## **Performance upgrade capability and relative products.**

- ▲ UCON301-I box : one set RS232/RS422/RS485 to ground isolated RS422/485 converter.
- ▲ UCON232DB-I box : Triple way Ground isolated RS232 to RS232 isolator.
- ▲ UCON422DB-I box : Triple way Ground isolated RS422/485 to RS422/RS485 repeater & Bridge.
- ▲ UCON485DB-I box : Triple way Ground isolated RS232 to RS422/RS485 Interface converter.
- ▲ RS4232-4 box : 4 sets RS232 to Ground isolated RS232/422/485 converter box.
- ▲ RS4232-8 box : 8 sets RS232 to Ground isolated RS422/485 converter box.

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