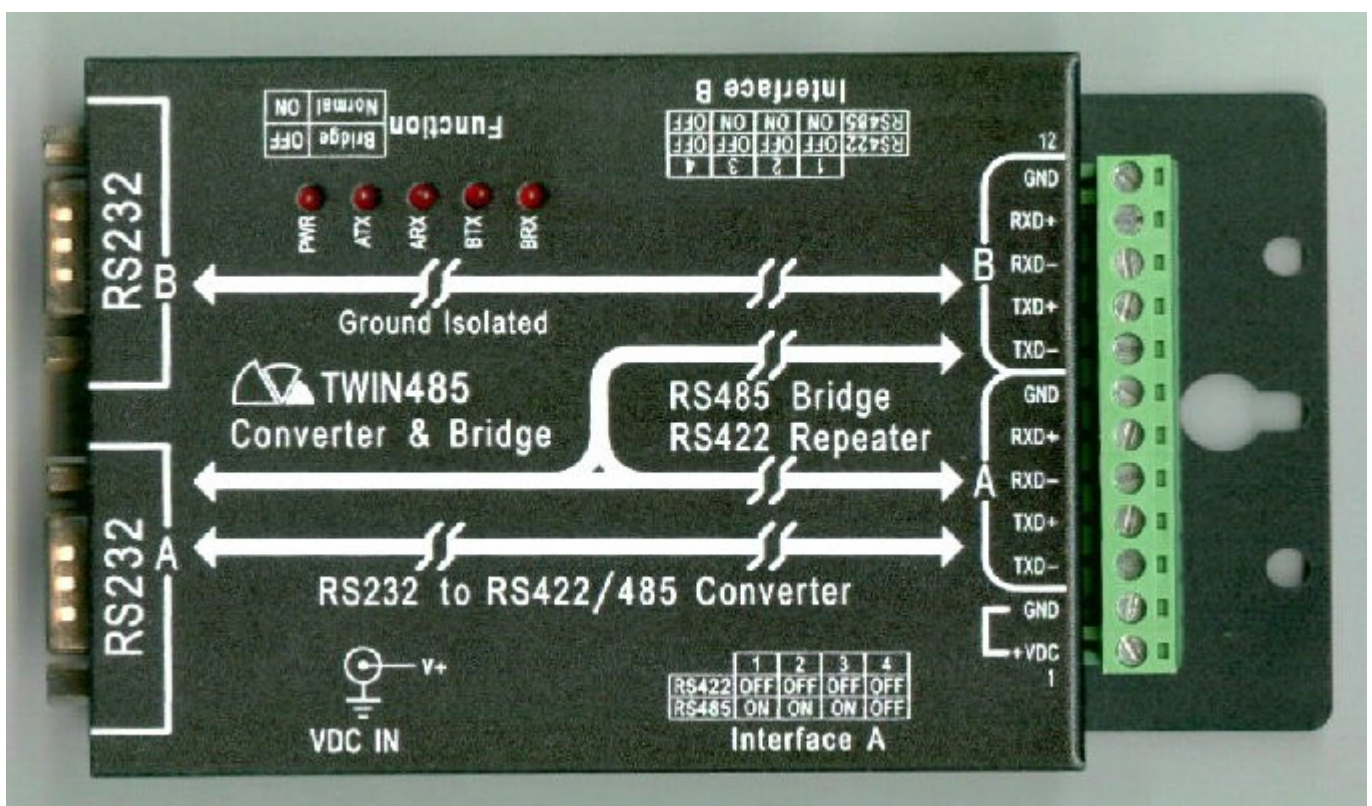# *TWIN485*

Converter, **R**epeater, **B**ridge for

RS232 and **Ground Isolated** RS422/485.

DUAL RS232 to Ground Isolated RS422/485 **C**onverter.

Repeater for *DOUBLE* RS422/485 segment.

Bridge for one RS232 to *TWIN* RS422/485 segment.

- ★ Double RS232 to RS485 converter
- ★ Double RS232 to RS422 converter
- ★ One set RS422 to RS485 converter
- ★ One set RS422 to RS422 repeater
- ★ One set RS485 to RS485 bridge
- ★ One RS232 to double segment RS485 network
- ★ Fully Ground Isolated Function
- ★ Auto Data Direction Control on RS485
- ★ Support screw terminal and DC power adaptor
- ★ All function and Feature set by DIP switch
- ★ RS232 data transmission LED indicator

TWIN485 specifications :

RS232 interface :
◆Connector type : DB9 male connector.
◆Number of ports : 2
  NOTE : port A is major port in bridge function mode.
  NOTE : port A and B have same signal ground with power input from screw terminal or DC power adaptor.

Function setting :
◆Use one DIP switch to set for NORMAL mode or BRIDGE mode.
◆NORMAL mode : support 2 independent RS232 to RS422/485 converter.
◆BRIDGE mode :
  Support RS232 port A to RS422/485 network. RS422/485 port A and B offer two segment of RS422/485 network.
  Function as RS422 repeater or RS485 bridge.

Power input :
◆DC 9V -- 32V @ 2.5W.
◆Two pin screw terminal input or standard DC power adaptor input.
  NOTE : User may define RS232 port A pin 9 as DC power input (OEM base).

Environment :
◆operating temperature : 0℃ to 55℃.
◆operating humidity : 0% to 95% RH.
◆storage temperature : 0℃ to 65℃.
◆storage humidity : 5% to 95% RH.

RS422/485 interface :
◆Connector type : screw terminal block.
◆Number of ports : 2
  NOTE : RS422 or RS485 interface type set by DIP switch.
  NOTE : terminator resistor insert or not set by DIP switch.
  NOTE : each port with isolated signal ground.
  NOTE : each port with 5 screw terminal signal pin TX+ , TX- , RX+ , RX- , isolated GND.
  NOTE : In RS485 interface type support Auto-Data-Direction-Control feature. Data+ and Data- signal can be in TX+ and TX- pair or RX+ and RX- pair.

LED indicator :
◆PWR : DC power input ON indicator.
◆ATXD : RS232 port A TXD signal activity.
◆ARXD : RS232 port A RXD signal activity.
◆BTXD : RS232 port B TXD signal activity.
◆BRXD : RS232 port B RXD signal activity.

Accessories :
◆A101 cable : 6 feet DB9 female to DB9 female for PC COM port connection.
◆A405 cable : 6 feet DB37 male to four DB9 female for P584 card connection.
◆R805 cable : 6 feet DB62 male to eight DB9 female for P588 card connection.

Dimension :
◆TWIN485 box :
  84mm (W) * 150mm (L) * 25mm(H)

Performance upgrade capability and relative products.
▲ TRP-C06 box：one port ground isolated RS232 to RS422/485 converter.
▲ P422I PCIPORT card：each card support two Ground isolated RS422/485 ports.
▲ P485 PCIPORT card：each card support four Ground isolated RS422/485 ports.
▲ RS4232-4 box：4 RS232 to Ground isolated RS232/422/485 converter box.
▲ RS4232-8 box：8 RS232 to Ground isolated RS422/485 converter box.
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