

## 4. INSTALLATION & APPLICATION

### 4-1. INSTALLATION

- [1] prepare 2 pieces Twisted Pair (TP) wire
- [2] switch off all ports
- [3] RS-232C port is DCE connecting mode, directly plug RS-232C into DB9 male port of DTE equipment (such as COM port of PC), please pay attention: signal voltage should bigger than +5V, in case the equipment is DCE connecting mode, please wire as below:

Equipment	DB9 pins								
RS-232C	1	2	3	4	5	6	7	8	9
DCE equipment	1	3	2	4	5	6	7	8	9

- [4] RS-422 and RS-422 equipment

232-422 6-pole connector	RS-422 Equipment
TX+	RX+
TX-	RX-
RX+	TX+
RX-	TX-
GND	GND
+5V--+12V	

### 4-2. APPLICATION

This convert supports 2 communication mode:

- point to point, 4 wires, full-duplex
- point to points, 4 wires, full-duplex

This converter is mainly adopted for RS-232C equipment controlling RS-422 equipment. As the electrical characteristics are different on 2 side, the equipments on 2 side can not communicate directly, then this converter can convert RS-232C signals into RS-422 signals.

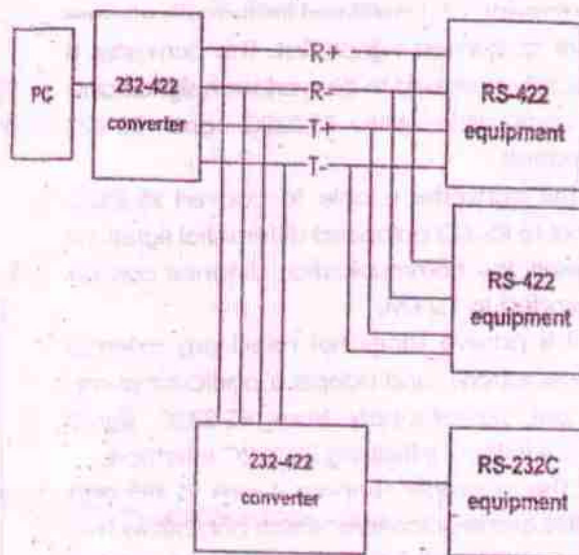
When this convert works at the end of network, a terminal resistance (normally 120Ω, 1/4 W) is required to be installed to prevent signal from reflection and interference.

### 5. NETWORK ILLUSTRATION

- [1] point to point, 4 wires, full-duplex



- [2] point to multi-points, 4 wires, full-duplex



### 6. FREQUENTLY ASKED QUESTIONS (FAQ)

- [1] data communication failure

- \* Check if RS-232C interface connection is correct
- \* Check if RS-422 interface connection is correct
- \* Check if RS-232C signal voltage is lower than +5V, if it is, can supply power to converter via DB9 male pin 6.

- [2] data loss or mistake

Check if data rate and format is consistent on both communication equipments

### 7. STANDARD ACCESSORIES

- [1] Operation Manual: 1PC
- [2] 6-pole connecting board: 1PC