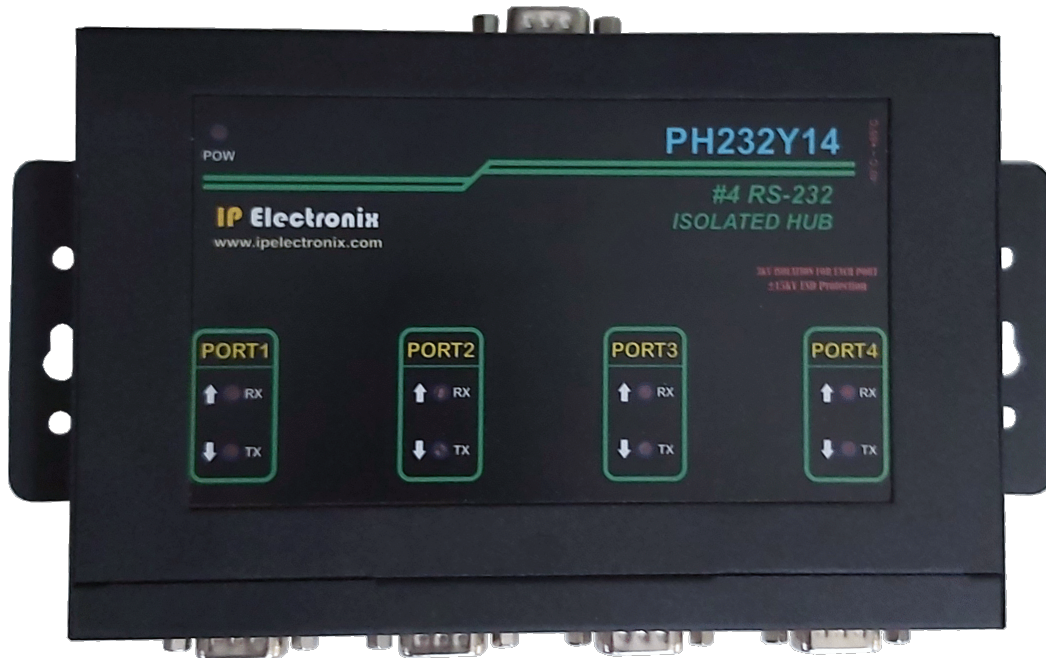


DATA SHEET



PH232Y14

#1 to #4 RS-232 ISOLATED HUB (REPEATER, AMPLIFIER and Y-Switch)

IPEX

(IP Electronix)

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ipelectronix.com

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1. INTRODUCTION

IPEX PH232Y14 is a 1 to 4 RS-232 HUB that provides #4 RS-232 (Full Duplex) ports from one single RS-232 port. It works with Baud-Rate from 300bps to 230400bps. Using this device, you can connect a RS-232 line, to 4 different devices.

PH232Y14 can also be used as a RS-232 Repeater, Amplifier and Y-Switch. All communications are Full-Duplex. In addition, 3kV Optical and Electrical insulations have been used in the design of this device, this means all the ports are insulated from each other, so using this device in the RS-232 line, can be very effective in eliminating electrically and electromagnetically noises. Also, the length of the RS-232 line increases from 15m to 30m (15m on each side).

Protection against Surge, ESD and EMI is considered in its design, so, **PH232Y14** is good for industrial usage and are useful for Industrial Automation, Telecommunications, SCADA systems, DCS systems...

2. SERIAL INTERFACE (RS-232)

- **Serial Standard:** EIA RS-232 Standard;
- **RS-232 Signal (Full Handshake Support):** TxD, RxD, RTS, CTS, DTR, DSR, GND;
- **Baud Rate Type:** Auto Switching Baud Rate;
- **Baud Rates:** 300, 600, 1200, 2400, 4800, 9600, 19200, 38400, 57600, 115200, 230400 bps;
- **Data Bits:** 5, 6, 7, 8;
- **Stop Bits:** 1, 1.5, 2;
- **Parity:** None, Even, Odd, Space, Mark;
- **Flow Control:** RTS/CTS, XON/XOFF;
- **Connector:** DB9 Male (DTE);
- **Maximum Communication Distance:** 15m.

3. PROTECTION

- **Isolation Protection:** 3kV Instantaneous, 500V DC continuous;
- **Surge Protection:** Embedded 1500W Surge Protection;
- **Magnetic Isolation:** 1.5 kV Built-in;
- **ESD Protection:** 15 kV Built-in.

4. GENERAL SPECIFICATIONS

- Power **(Green)** LED Indicator;
- USB **(Green)** LED Indicator;
- Transmit **(Blue)** LED Indicator for all ports;
- Receive **(Yellow)** LED Indicator for all ports;
- **Guarantee Period:** 1 Year;
- **Warranty Period:** 5 years.

5. POWER SUPPLY

- **Power Supply Input Voltage:** 8V ~ 48V DC;
- **Power Consumption:** ~ 4.5W (Max.).

6. PHYSICAL CHARACTERISTICS (THE DEVICE ONLY)

- **Housing:** Metal;
- **Weight:** 507g;
- **Dimensions:** 218mm x 122mm x 30mm (8.58in x 4.80in x 1.18 in).

7. PHYSICAL CHARACTERISTICS (IN THE BOX)

- **Housing:** Carton;
- **Weight:** 840g;
- **Dimensions:** 220mm x 160mm x 80mm (8.66in x 6.30in x 6.08in).

8. ENVIRONMENTAL LIMITS

- **Operating Temperature:** -10°C to +70°C (+14°F to +158°F);
- **Operating Humidity:** 5% to 95% RH;
- **Storage Temperature:** -40°C to +85°C (-40°F to +185°F).