DATA SHEET

PH232Ux4

#4 RS-232 Over USB ISOLATED MULTIPORT

IPEX

(IP Electronix)

12 January 2022

Contents

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1. INRODUCTION

IPEX PH232Ux4 is a USB Adapter Multiport that provides #4 Serial COM Ports via its USB connection and is compatible with RS-232 standard devices RXD, TXD, RTS, CTS, DTR, DSR and GND signals. **PH232Ux4** is fully Plug & Play a and enables your laptop or workstation with the ability to communicate between a USB port and up to #4 RS-232 serial peripherals with baud-rate from 300bps to 230400bps simultaneously. **PH232Ux4** is Full-Duplex converter and supports Point-to-Point connection.

PH232Ux4 supports a wide range power supply and is working with DC voltage between 8V to 48V. Protection against Surge, ESD and EMI is considered in its design and also has 3kV insulation between USB and RS-232 sides. Furthermore, all the ports are insulated from each other too.

PH232Ux4 is designed for industrial usage and is useful for Industrial Automation, Telecommunications, SCADA Systems and DCS Systems …

PH232Ux4 comes complete with drivers for Microsoft Windows. Drivers are also available for Linux, Mac OS and Android.

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, DTR/DSR, or XON/XOFF, or None;
- **Connector:** DB9 Male (DTE);
- **Maximum Communication Distance:** 15m.

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3. USB

- **Compatibility:** USB 1.0, 1.1 and 2.0 Standard Compatible;
- **Speed:** Hi-speed USB 2.0 Supported (up to 480 Mbps);
- **Additional I/O or IRQ:** Not Required;
- **Driver Supported:** Microsoft Windows, Linux, Mac OS and Android (32 & 64 Bits) Operating Systems;
- **Cable:** USB Type A connector (Type A to Type B cable provided);
- **USB Cable Length:** 1.5m;
- **Connector:** USB type B.

4. 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.

5. 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.

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6. POWER SUPPLY

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

7. PHYSICAL CHARACTERISTICS (THE DEVICE ONLY)

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

8. PHYSICAL CHARACTERISTICS (IN THE BOX)

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

9. 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).

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