

DATA SHEET



PH232Ux1

RS-232/TTL UART ISOLATED USB ADAPTER

IPEX

(IP Electronix)

12 January 2022

ipelectronix.com

Contents

1. INTRODUCTION 4

2. SERIAL INTERFACE (RS-232) 4

3. USB 5

4. PROTECTION 5

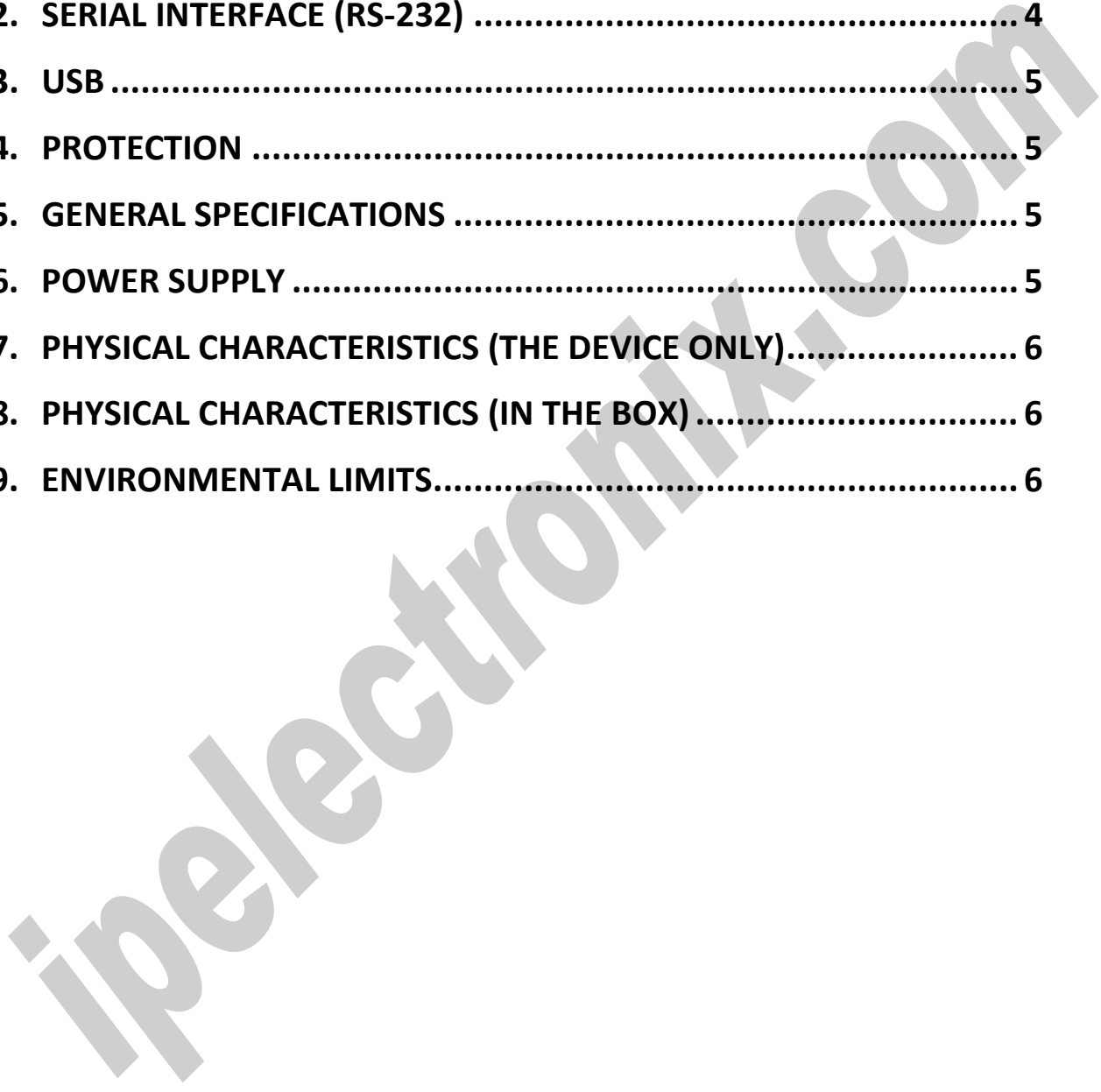
5. GENERAL SPECIFICATIONS 5

6. POWER SUPPLY 5

7. PHYSICAL CHARACTERISTICS (THE DEVICE ONLY)..... 6

8. PHYSICAL CHARACTERISTICS (IN THE BOX) 6

9. ENVIRONMENTAL LIMITS..... 6



1. INTRODUCTION

IPEX PH232Ux1 is a USB Adapter Multiport that provides a Serial COM Ports via its USB connection and is compatible with RS-232 standard devices RXD, TXD, RTS, CTS, DTR, DSR, DCD, RI and GND signals. **PH232Ux1** is fully Plug & Play and enables your laptop or workstation with the ability to communicate between a USB port and a RS-232 serial peripherals with baud-rate from 300bps to 230400bps. **PH232Ux1** is Full-Duplex converter and supports Point-to-Point connection.

Any external power supply is not required, as **PH232Ux1** takes its power from the USB Bus. Protection against Surge, ESD and EMI is considered in its design and also has 3kV insulation between USB and RS-232 sides.

PH232Ux1 is designed for industrial usage and is useful for Industrial Automation, Telecommunications, SCADA Systems and DCS Systems ...

PH232Ux1 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, DCD, GND, RI;
- **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.

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;**
- **Transmit (Blue) LED Indicator;**
- **Receive (Yellow) LED Indicator;**
- **Guarantee Period:** 1 Year;
- **Warranty Period:** 5 years.

6. POWER SUPPLY

- **Power Supply Input Voltage:** USB Bus Powered, No External Power Supply Needed;
- **Power Consumption:** ~ 0.5W (Max.).

7. PHYSICAL CHARACTERISTICS (THE DEVICE ONLY)

- **Housing:** Plastic;
- **Weight:** 185g;
- **Dimensions:** 26mm x 71.6mm x 122 mm (1.03in x 2.8in x 4.82in).

8. PHYSICAL CHARACTERISTICS (IN THE BOX)

- **Housing:** Carton;
- **Weight:** 430g;
- **Dimensions:** 200mm x 135mm x 65mm (7.87in x 5.31in x 2.56in).

9. ENVIRONMENTAL LIMITS

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

ipelectronix.com