

# US-159

## Isolated High Retention USB 1 Port RS232

- 1 Port Isolated RS-232 USB to Serial Adapter
- Isolation: Avoid electrical damage to your expensive equipment
- High Retention USB connector with 50cm USB cable
- Works where many other USB to Serial devices do not
- Industrial Specification IP-50 rated -40 °C to +80 °C / -40 °F to +176 °F
- Lifetime Warranty and Support



### Ultra small USB to serial adapter suitable for any environment

The US-159 has 2kV of isolation, protecting from high voltage spikes and ground potential difference. We provide our own software drivers - eliminating many common problems with USB to Serial - giving you a reliable, stable, native com port solution.

### 2kV Isolation

ESD protection to IEC 61000-4-2:

Contact discharge:  $\pm 8$  kV

Air gap discharge:  $\pm 15$  kV



*"I have tried many off the shelf USB to Serial adapters. Some break easily, others only work some of the time. Brainboxes installed in seconds and could communicate with anything I threw at it, I would recommend this device to anyone."*

*Colin Young, Nutek Europe*



Drivers for all popular operating systems including latest Windows

The high retention USB connection requires a minimum withdrawal requirement of 15N (thats a force of 1.5Kg or 3.4lbs). Connectors have orange color-coded insulator to differentiate from standard USB connectors. The connection is so strong that the port is capable of taking the weight of a bottle of champagne.



**Housing and connectors**

IP-50 rated non-conducting polyamide case

DB9 Connector - 9 Pin Male

High Retention USB Connector

Wall mounting screw recess

**Environmental**

Operating Temperature      -40 °C to +80 °C / -40 °F to +176 °F

**Power Supply**

Power Consumption      100mA @ 5V

Power Supply input      +5V through USB cable (supplied)



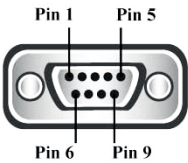
**Port Settings - RS232**

|              |                                                        |
|--------------|--------------------------------------------------------|
| Baud Rate    | From 0 up to 460 kBaud - Any custom Baud rate accepted |
| Data Bits    | 5,6,7 or 8                                             |
| Parity       | Odd, Even, None, Mark or Space                         |
| Stop Bits    | 1 or 2                                                 |
| Flow Control | RTS/CTS, XON/XOFF                                      |
| Tx/Rx Modes  | Point to Point                                         |

**RS232**

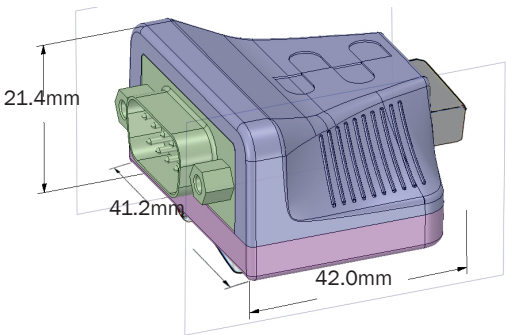
|       |     |
|-------|-----|
| Pin 1 |     |
| Pin 2 | RXD |
| Pin 3 | TXD |
| Pin 4 |     |
| Pin 5 | GND |
| Pin 6 |     |
| Pin 7 | RTS |
| Pin 8 | CTS |
| Pin 9 |     |

RS232 Pinout (9 Pin Male)



IP-50 rated non-conducting case

Wall mounting option



**Lifetime Warranty and Support:**

We can help with every aspect of your project, from getting you up and running to custom application.



**Optional: US-063 USB Type A Plug to Type B Plug 1000mm**



1m cable available: US-063

Brainboxes have additional and alternative length cables available that are compatible with this product

**Packaging Information**

|                     |                                                                                           |
|---------------------|-------------------------------------------------------------------------------------------|
| Packaging           | Installation CD including manual, Microsoft signed drivers & utilities, Quick Start Guide |
| Packaged Weight     | 0.155 kg, 5.47 ounces                                                                     |
| Packaged Dims       | 160x135x45 mm, 6.3x5.3x1.8 inches                                                         |
| GTIN Universal Code | 837324003802                                                                              |