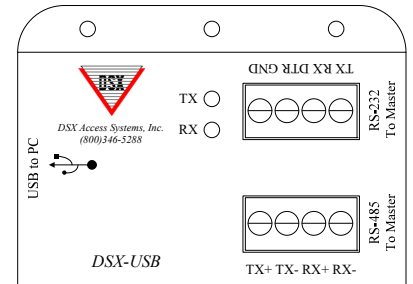# DSX-USB
COMM INTERFACE

SINGLE CHANNEL USB TO RS-232/RS-485 CONVERTER

Single Channel USB to RS-232 or RS-485 Converter for Master or Sub communications with removable terminal blocks.

This new module can provide the RS-232 required for a 1040 Series Master Controller. The module will also support a Dial-up Modem at the Comm Server and has the necessary DTR output for modem use.

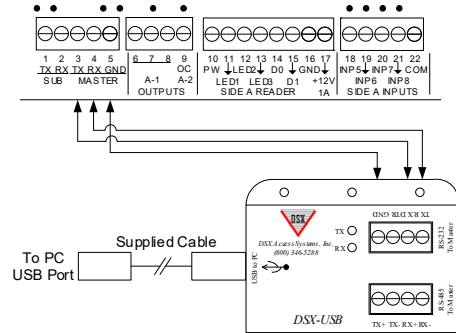

Installing the Driver

1. In Windows go to the "Device Manager".

2. Plug the DSX-USB module into the PC.

3. Locate the device that appears when plugged in.

4. Right click on the device and select "Update Driver".

5. Choose Browse and navigate to the DSX Flash Drive - and to \USB Drivers_00_DSX USBa\ and click OK.

6. Windows should update the driver and then show you the Comm Port number it assigns to it under Ports/Comm and LPT. Use that number when creating the Comm Port in the DSX Software.

Note: In some cases, you might have to repeat this process before Windows will assign a comm port number to the USB Module.
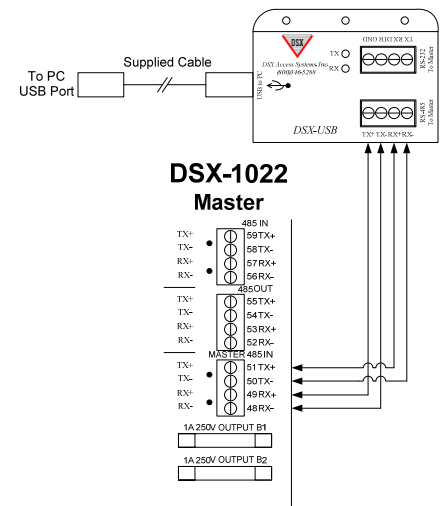
Installing the Module

The module comes complete with a 3' USB Cable so that it can be mounted away from the port it is attached to. It has a mounting flange with three holes so that it can be anchored or wire tied, securing its installation. The field wiring side is connected via standard DSX removable terminal blocks.
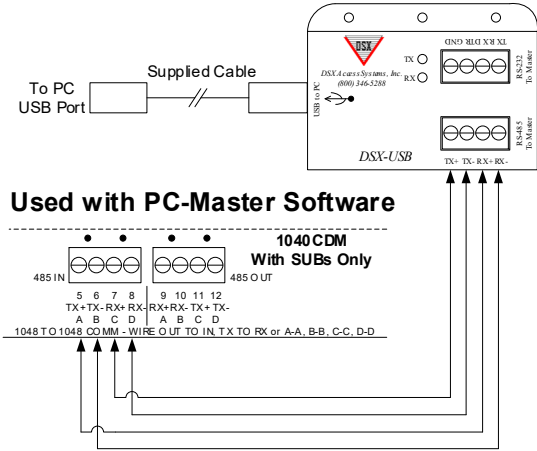
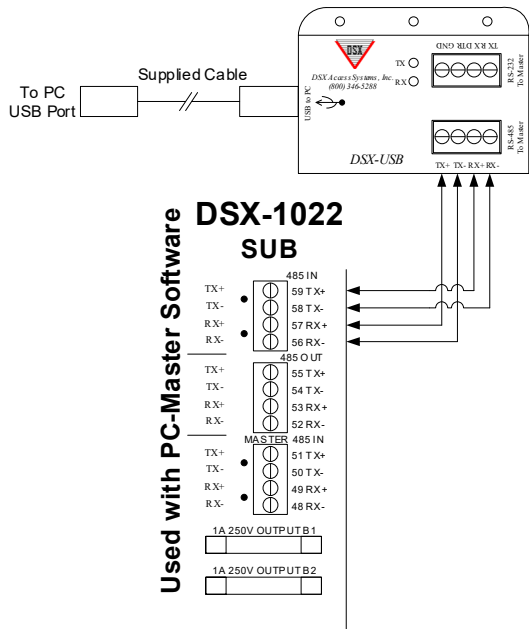**DSX-USB to DSX-1042 Master**

DSX-USB to DSX- 1022 Master

PC Master to DSX-1040 Sub Controller

When PC Master is deployed, the DSX-USB can be used to communicate with 1040 Series Sub Controllers via a USB Port on the PC Master computer.

Used with PC-Master Software

1040 CDM With SUBs Only

485 IN   485 OUT

5   6   7   8   9   10 11 12
TX+ TX- RX+ RX- RX+ RX- TX+ TX-
A   B   C   D   A   B   C   D
1048 TO 1048 COMM - WIRE OUT TO IN, TX TO RX or A-A, B-B, C-C, D-D
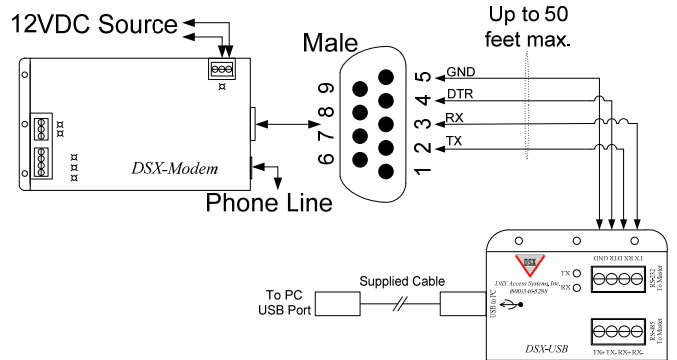
PC Master to DSX-1022 Sub Controller

When PC Master is deployed, the DSX-USB can be used to communicate with 1022 Sub Controllers via a USB Port on the PC Master computer.

Used with PC-Master Software

DSX-1022 SUB

485 IN
TX+ 59 T X+
TX- 58 T X-
RX+ 57 RX+
RX- 56 RX-

485 OUT
TX+ 55 T X+
TX- 54 T X-
RX+ 53 RX+
RX- 52 RX-

MASTER 485 IN
TX+ 51 T X+
TX- 50 T X-
RX+ 49 RX+
RX- 48 RX-

1A 250V OUTPUT B1
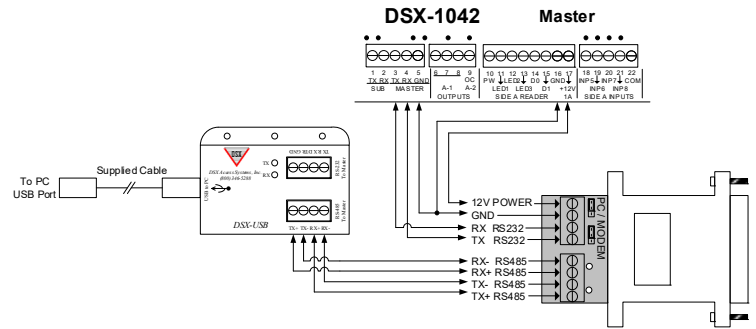1A 250V OUTPUT B2

DSX-Dial-Up Modem via USB Port

When a DSX Dial-up Modem is required for communications at the Comm Server, the DSX-USB can provide a serial connection where only a USB Port is present.

DSX-Modem at PC

12VDC Source

Male

Up to 50 feet max.

GND
DTR
RX
TX

DSX-Modem

Phone Line

DSX-USB to MCI for RS-232 Long Haul

When a DSX-1040 Series Master is more than 100' from the Comm Server a DSX-USB can provide an RS-485 4 wire output that can communicate up to 4000 feet. At the controller end there would be an MCI module which would then convert the RS-485 to RS-232 so it can be connected to a 1040 Series Master Controller.
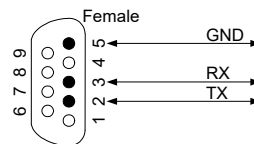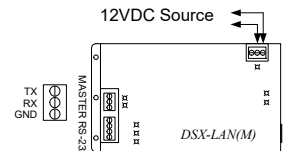

DSX-1042   **Master**

12V POWER
GND
RX RS232
TX RS232
RX- RS485
RX+ RS485
TX- RS485
TX+ RS485

DSX-USB to DSX-LAN for programming

Serial Port of Comm Server PC

To Configure DSX-LAN

DSX-LAN

12VDC Source

Female

GND
RX
TX

TX
RX
GND

MASTER RS-232

DSX-LAN(M)

Or

USB Port of Comm Server PC

To PC USB Port

Supplied Cable

TX
RX
GND

MASTER RS-232

DSX-LAN(M)