



### **DESCRIPTION**

The East Coast Datacom, Inc. A/B Switch allows secure and safe switching between RS-530 or any ITU V.11 balanced interface ports. The unit supports switching 4-wires of user data traffic from the Common Port to Ports-A or Port-B. All switching is accomplished with dry contact positive latching relays for years of dependable service. In the event of local power failure, the A/B Switch will default to Port A.

The switching between Port A to Port B are accomplished with a remote device that applies a contact closure to the A/B Switch via the RJ-45 Remote Port. The switching takes place when Pin-4 GROUND and Pin-6 make or break contact. If power is ever lost to the A/B Switch, the relays will switch to Port-A and continue working without power.

The front panel has three status LED's that present the user with Port A or Port B active status. A power LED is also present to indicate that the A/B Switch has power applied.

The A/B Switch is housed in a sturdy metal enclosure and operates with the supplied 5V DC power supply. All connections and power are protected from surges via internal transorbs.

The A/B Switch has a three year warranty and a 24 hour turnaround on warranty repairs.

### **GROUND CONNECTION**

The A/B Switch has a #8-32 threaded bolt on the back panel. Connect your local Earth Ground to the A/B Switch chassis using a ground wire to the #8-32 bolt provided.

### **VOLTAGE OPERATION**

The A/B Switch is powered from a single Wall Mount AC/DC 5V DC Power Supply.

ECDATA Transformer PT# 711019

AC Supply Input: 100-240AC

DC Output: 5.0V DC 1.5A 7.5W MAX

### **POWER CONNECTION**

The wall mount transformer has a 2.5mm DC Jack attached to the cord.

Plug the 2.5mm jack into the A/B Switch connector marked: **DC INPUT**

Now, plug the wall mount transformer into the AC outlet.

**INDICATORS – LED’s**

The front panel is marked with a POWER LED and should be illuminated when power is applied to the unit. Additionally, PORT A and PORT B LED indicators are provided and only one port will illuminate when the port is selected.

**INSTALLING THE A/B SWITCH**

The user should plug the data cables into the appropriate ports Marked COMMON, PORT-A and PORT-B.

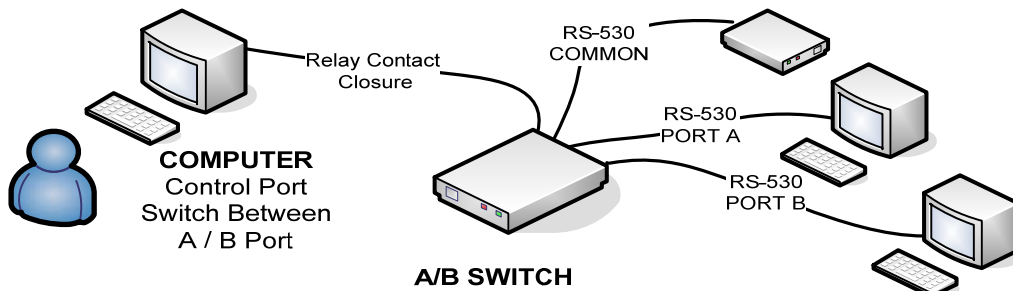


Figure 1

Pin 1 Earth GND
Pin 2 No Connect
Pin 3 No Connect
Pin 4 RXD (A)
Pin 5 RXD (B)
Pin 6 No Connect
Pin 7 Ground
Pin 8 TXD (A)
Pin 9 TXD (B)
<b>(A) = + lead RS-530</b>
<b>(B)= - lead RS-530</b>

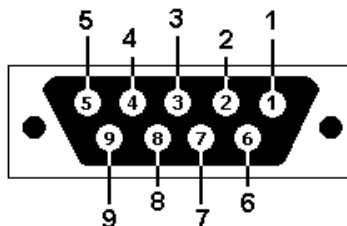


Figure 2 - DB9 View looking into female connector

A/B Leads shown to keep high speed signals in pairs through relays

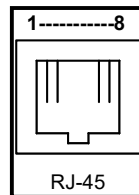
**\*\*\*\*All signals are really just wires end to end and can be any signals\*\*\*\***

**RELAY CONTACT CLOSURE CONNECTOR**

The A/B Switch Port A to Port B switching is controlled by the REMOTE port which is RJ-45.

Pins Supported 4-GND and 6-Make Contact from Relay(Short to allow Port A/B Switching

- Pin 1 Open
- Pin 2 Open
- Pin 3 Open
- Pin 4 GND
- Pin 5 Open
- Pin 6 CONNECT
- Pin 7 Open
- Pin 8 open



RJ45 View looking into female connector

# Specifications

## Application

Allows a user to connect to a Single Common Input Port and Remotely Switch between two Output A and B Ports with local visual port indicators.

## Capacity

Three Ports  
Common Port  
Port A and Port B

## Data Interface

4-Wire & Ground Interface supports RS-530 or any ITU V.11 compliant balanced interface

## Data Format

Data Transparent at all Data Rates

## Data Rates

Up to 19.2Kbps

## Indicators

Power, Port A and Port B

## Surge Protection

Main power supply and all Data Ports

## Power Source - MTBF

External Wall Mount AC to DC Supply, Input Voltage 90-240VAC. Output Voltage is 5VDC

## EMI

FCC 47CFR, Part 15, Subpart B for conducted emissions from a Class A  
FCC 47CFR, Part 15, Subpart B for radiated emissions from a Class A

## Safety Approvals

UL 60950, UL 62368

## Electric Discharge

IEC EN-61000-4-2

## Environmental – ETSI EN 300 019-2-4 v2.4.6

Operating Temperature: 32° to 104° F (0° to 40° C)  
Operational Altitude: 0 to 6,500 feet  
Operational Relative Humidity: 10-80%  
Non-Operational Temperature: -30° C to 56° C  
Non-Operational Altitude: 0 to 50,000 feet above sea level

## Dimensions

Height ..... 1.75 inches (4.445 cm)  
Width ..... 5.75 inches (14.605 cm)  
Length ..... 5.54 inches (14.072 cm)

## Weight

1 Pound (0.045Kg)

## Warranty

Three Years, Return To Factory

## ORDERING INFORMATION

Main Unit Part Number: 262000

Model: A/B Switch

Description: 2-Port A/B Switch with Common

## INCLUDED WITH EACH UNIT:

- 1) Operations Manual
- 2) AC / DC Supply N America

For further detailed technical information on this product, contact East Coast Datacom Technical Assistance at +1 (321) 637-9922

**Notice to the User:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:  
-Reorient or relocate the receiving antenna.  
-Increase the separation between the equipment and receiver.  
-Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.  
-Consult the dealer or an experienced radio/TV technician for help.