A/B-SWITCH CARDS FOR PRO SWITCHING SYSTEM II

Signals switched by the SM930C pass directly in and out of the native DB25 female connectors on the backplane of the PSSII. Signals switched by the other cards also pass through the included adapters attached to the PSSII's DB25 female connectors. This table shows how the DB25 leads are mapped to the leads of the connectors on the other cards' adapters:

Balanced Pairs or Unbalanced Pins:

PSSII/SM930C DB25	SM931C DB9	SM932C DB15	SM933C RJ-11	SM934C RJ-45
1		1		
2 & 14	3	2 & 9	1 & 2	1 & 2
3 & 16	2	4 & 11	3 & 4	3 & 6
4 & 19	7	3 & 10		7&8
5 & 13	8			5&4
6 & 22	6 & 9			
7	5	8		
8 & 10	1	5 & 12		
15 & 12		7 & 14		
17 & 9		6 & 13		
18				
20 & 23	4			
21				
24&11				
25				

All cells left blank in this table are unmapped. DB15 pin 15 is an open circuit.

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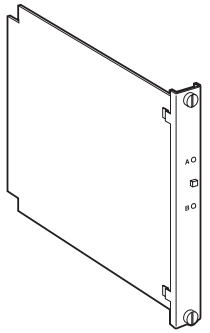
BLACK BOX® NETWORK SERVICES

AUGUST 2002

SM930C SM931C SM932C SM933C SM934C

A/B-Switch Cards for Pro Switching System II



The A/B-Switch Cards for the Pro Switching System II ("PSSII" for short) provide a low-cost A/B-switching-only capability for the system. We offer several models with different adapters for the PSSII's backplane connectors:

- The universal DB25 model (product code SM930C) is designed for the PSSII's three native DB25 female connectors, so it needs no adapters. It's suitable for standard RS-232 or RS-530 switching applications.
- The DB9 model (SM931C) comes with three DB25M-to-DB9F adapters and is suitable for RS-232 TIA-574 (IBM® PC COM port) switching applications.
- The DB15 model (SM932C) comes with three DB25M-to-DB15F adapters and is suitable for X.21 switching applications.
- The RJ-11 model (SM933C) comes with three DB25M-to-RJ-11F adapters and is suitable for 4-wire RS-422 style applications. (You can also use it to switch private telephone circuits, but these can't be connected to the public telephone system.)
- The RJ-45 model (SM934C) comes with three DB25M-to-RJ-45F adapters. (The RJ-45 connectors are RJ-48 compatible and are unkeyed.) It's suitable for RS-232 TIA-561, 8-wire RS-422, 10BASE-T, or Token Ring (up to 16 Mbps) switching applications. (You can also use it to switch private T1 or E1 circuits, but these can't be connected to the public telephone system.)

CUSTOMER SUPPORT INFORMATION

Order **toll-free** in the U.S.: Call **877-877-BBOX** (outside U.S. call **724-746-5500**)
FREE technical support 24 hours a day, 7 days a week: Call **724-746-5500** or fax **724-746-0746**
Mailing address: **Black Box Corporation**, 1000 Park Drive, Lawrence, PA 15055-1018
Web site: **www.blackbox.com** • E-mail: **info@blackbox.com**

Figure 1 shows the front panel of the A/B-Switch Cards. Figure 2 shows a schematic of the cards.

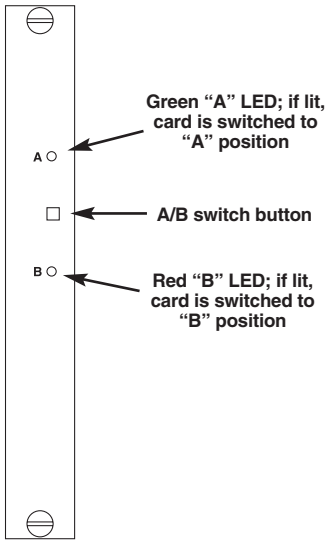


Figure 1. The cards' front panel.

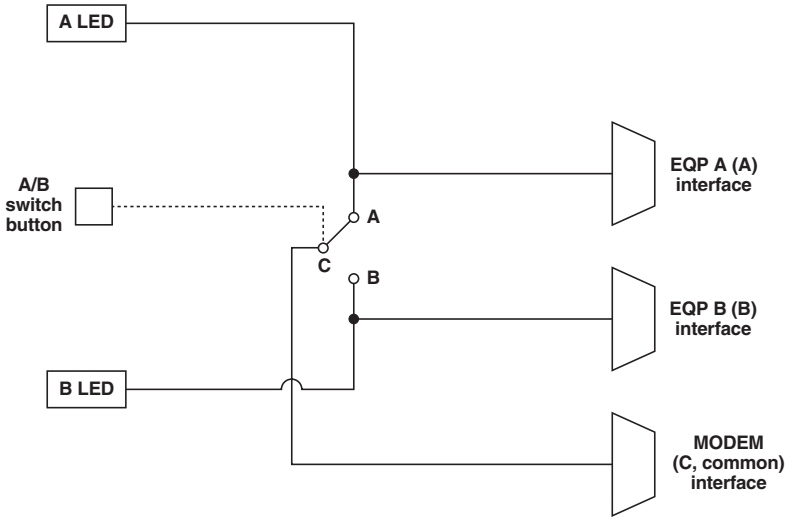


Figure 2. Schematic for the cards.

There are no special requirements for installing an A/B-Switch Card in a Pro Switching System II chassis. Refer to the installation section of your PSSII manual and use the same procedures that you would to install any other type of card in the chassis. For card models other than SM930C, you will also have to attach the three included adapters to the DB25 female connectors on the PSSII's rear panel.

To switch the A/B-Switch Card's circuit to the desired position (A or B), do one of the following:

- Press the A/B switch button on the A/B-Switch Card and hold it down for two seconds. The card will then switch to the alternate position.
- If you're controlling the PSSII through an ASCII terminal, send a terminal command to cause the card to switch to A, switch to B, or switch to the opposite position.
- If you're controlling the PSSII through software, use an action button in the software to cause the card to switch to A, switch to B, or switch to the opposite position.
- Perform a gang switch using any control method (manual, terminal, or software). The card will switch to the alternate position.

See the last page for the adapter pinouts of the various interfaces.