



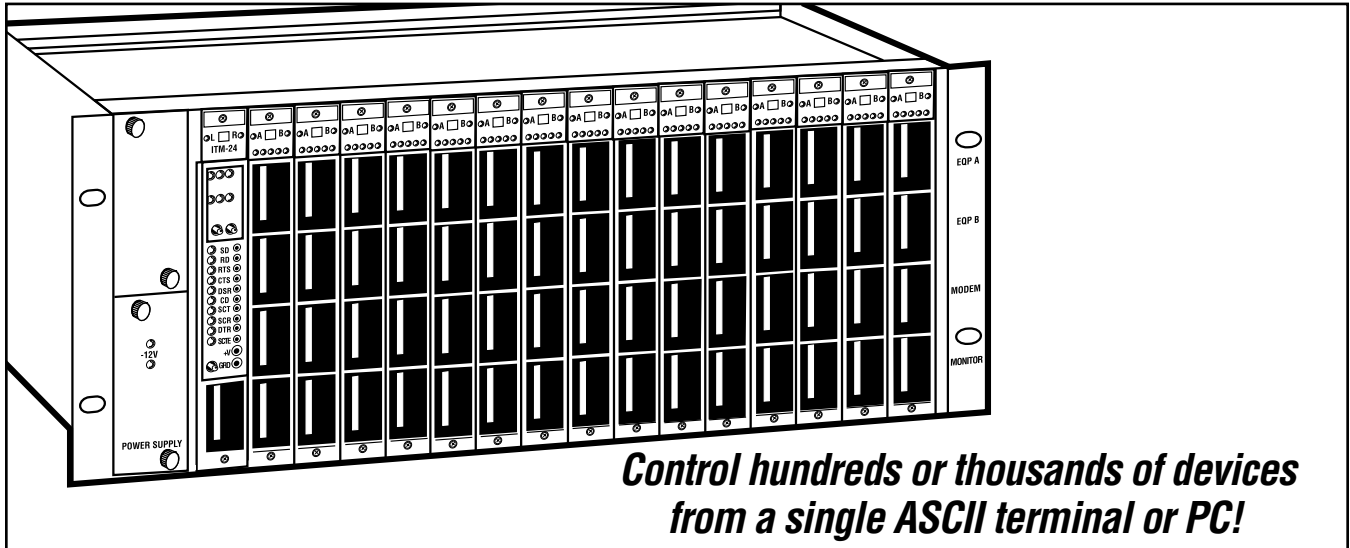
BLACK BOX[®]

NETWORK SERVICES

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Black Box Corporation.

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PRO SWITCHING SYSTEM II



Key Features

- ▶ **Chassis-mounted switching and patching system for RS-232, RS-530, X.21, and V.35 data communications.**
- ▶ **Daisychain up to 9901 fully populated chassis units to control and manage up to 158,416 A/B interface cards.**
- ▶ **Management Control Software makes on-screen control a snap.**
- ▶ **Multiple programmable alarms alert you to network conditions.**
- ▶ **Redundant power options.**

Up to now, daisy chaining several 16-port KVM switches for managing a few hundred CPUs was the standard of control.

Consider that standard demolished. With the BLACK BOX[®] Pro Switching System II, you can daisy chain up to 9901 chassis together to control and manage 158,416 A/B interface cards from a single console.

Switching—your way.

The Pro Switching System II is a chassis-mounted switching and patching system for RS-232, RS-530, V.35, and X.21 communications.

You can switch individual circuits, all 16 circuits in a chassis, or a group of user-defined circuits via remote console commands or automatically upon alarm. Or use front-panel pushbuttons to switch

individual circuits or to gang-switch an entire chassis. You can also disable manual switching capabilities with a console command.

Meet the switch gang.

The core of the Pro Switching System II is its chassis. Choose the SM900A model for RS-232, RS-530, X.21, or V.35 communications. For V.35 only, opt for the SM901A.

You can populate up to 16 Front Interface Cards in each slave chassis in a daisy chain configuration. The master chassis can be populated with up to 16 Front Interface Cards plus 1 Terminal Display Card. You need the SM903C card for the master SM900A chassis and the SM905C for the master SM901A chassis.

Both chassis also require a Management Control Card. The SM902C card is for the SM900A

chassis, and the SM904C card is for the SM901A chassis.

Lastly, equip your Pro Switching System II chassis with one or two Power Supply Modules (SM950A or SM950A-220).

The straight deal on the Front Interface Cards.

The SM900A chassis holds up to 16 RS-232, RS-530, X.21, or V.35 Front Interface Cards (SM906C–SM909C), and the SM901A chassis holds the same number of V.35 cards. The cards feature a switchable A/B circuit, a common RS-232 or V.35 cable connection, plus five signal-monitoring LEDs.

With up to nine alarm options, each RS-232, RS-530, and V.35 circuit can be individually configured for up to a maximum of eight alarms on the presence or absence of physical layer signals; each X.21 circuit can be

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individually configured for up to six programmable alarms.

All Front Interface Cards slide into the SM900A or SM901A to mate with rear cable connectors at the chassis backplane.

Visualize ease of management.

The master chassis requires one Terminal Display Card to work in conjunction with the Management Control Software.

The command console can be any ASCII terminal or PC. Management Control Software enables it to be configured to place outgoing calls and receive incoming calls from various locations equipped with Pro Switching System II chassis.

The software's simple graphical interface displays on-screen alarm conditions with a date and time stamp. A color-coded signal also shows the status of any circuit in the network, and signal status for an entire chassis can be viewed.

The brains behind this operation.

Manage each chassis with a Management Control Card. The control card is a micro-processor-based, multifunction logical bridge between the console-generated commands and the individual front cards.

Adjacent to each LED on a control card's front panel are voltage test jacks. Unbalanced signals have single jacks per signal; balanced signals have dual jacks. Positive test voltage and ground are also included.

It keeps you running.

Each chassis is outfitted with at least one Power Supply Module. Choose the SM950A for 110-VAC power or the SM950A-220 for 220-VAC power.

For backup power, you can equip a chassis with an additional Power Supply Module. If one module goes down, the other kicks in to keep your data moving.

Specifications

Controls: Terminal Control:

Send Data, Receive Data, Serial Clock Transmit, Serial Clock Receive, Request to Send, Data Terminal Ready, Data Carrier Detect, Data Set Ready;

GUI Control: Send Data, Receive Data, Serial Clock Transmit, Serial Clock Receive, Request to Send, Data Terminal Ready, Data Carrier Detect, Clear to Send

Data Format: 8-bit data, 1 stop bit, no parity

Management: Via ASCII terminal or software

Operating Environment:

Temperature: 32 to 104°F (0 to 40°C);
Humidity: 10 to 80% noncondensing

Programmed Alarms:

RS-232, RS-530, V.35: Send Data, Receive Data, Serial Clock Transmit, Serial Clock Receive, Request to Send, Data Terminal Ready, Data Carrier Detect, Data Set Ready, Clear to Send;

X.21: Transmit Data, Receive Data, Indicate, Control, Signal Element Timing, Byte Timing

Protocols: Transparent

Speed: Terminal Control: 1200, 2400, 4800, or 9600 bps; 19.2 kbps;
GUI Control: 1200, 2400, 4800, or 9600 bps

CE Approval: Yes

Interface: SM900A: RS-232, RS-530, X.21, V.35;
SM901A: V.35

Connectors: SM900A: (48) DB25 F, (3) per circuit; (2) DB25 F for monitor; (1) DB25 F for I/A test; (1) DB25 F for control in/out;
SM901A: (48) M/34 F, (3) per circuit; (2) DB25 F for monitor; (1) DB25 F for I/A test; (1) DB25 F for control in/out

Indicators: SM903C, SM905C: SD, RD, RTS, CTS, DSR, CD, SCT, SCR, DTR, RI, SCTE;
SM906C, SM907C, SM908C: SD, RD, CD, DTR, RTS

Power: 110/220 VAC, 60/50 Hz, internal, with IEC 320 connector

Size: 7"H (4U) x 19"W x 14"D (17.8 x 48.3 x 35.6 cm)

Weight: SM900A: 29 lb. (13.2 kg) fully loaded;
SM901A: 39 lb. (17.7 kg) fully loaded

Ordering Information

ITEM **CODE**

First, order the chassis for your application...

Pro Switching System II Chassis
RS-232, RS-530, X.21, V.35SM900A
V.35 OnlySM901A

...next, order one or two power supplies...

Power Supply Modules
110-VACSM950A
220-VACSM950A-220

...then, select either a control card...

Management Control Cards
RS-232, RS-530, X.21, V.35.....SM902C
V.35 OnlySM904C

...or a display card for your master chassis...

Terminal Display Cards
RS-232, RS-530, X.21, V.35.....SM903C
V.35 OnlySM905C

...and interface cards...

Front Interface Cards
RS-232SM906C
V.35.....SM907C
RS-530SM908C
X.21.....SM909C

For empty slots, order...

Blank Covers for Unused Slots
InterfaceSM910C
Power SupplySM911C

To manage the Pro Switching System II, order...

Management Control Software.....SM912A

You may want to order cable...

Category 5 Patch Cable, 100-MHz, 4-Pair,
Straight-Pinned, PVC, Beige,
10-ft. (3-m)EVMSL05-0010
RS-232 Cable, 25-Conductor, 10-ft. (3-m)....ECM25C-0010
V.35 Interface Cable, 10-ft. (3-m),
Male/MaleEYN450-0010-MM

You may also need...

Modular Adapter Kits
DB25 M↔RJ-11 F 4- or 6-WireFA024
DB25 M↔RJ-45 F 8-WireFA025



Black Box offers the best warranty program in the industry—Fido Protection®. For more information, request **FaxBack 22512**.