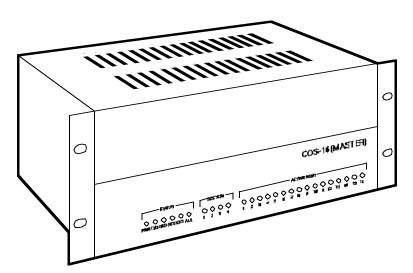


Code-Operated Switch-16



Handle the big switching jobs—the ones with up to 16 devices—without ever leaving your desk. This switch makes it happen.

With simple ASCII codes, you can use a computer to access at least 16 RS-232 devices—or as many as 64.

Key Features

► Huge capacity—the base model switches common-port access between 16 ports, and can be expanded to handle 64.

Convenient code-based switching means you can control all of your devices from one computer.

No accidental switching code-repetition feature separates Switch commands from data.

• Optional broadcast mode distributes data to all ports.

Runs at data rates up to 19.2 kbps.

Bring the ease of "soft switching" to large RS-232 applications with our biggest code-operated switch, the Code-Operated Switch-16 (COS-16). It works just as smoothly as a mechanical switch, but you activate it by sending a twocharacter ASCII code from your PC rather than by pressing a button or turning a knob.

Switching is simple. From a PC, modem, or terminal installed on the common port, just send the prefix (arming) character to alert the COS-16, then send the portselection character. Electronic relays instantly direct data to the proper port.

With code-based switching, you can use your local or remote PC to receive data from or transmit data to any of a huge collection of RS-232 terminals, peripherals, or lab or industrial equipment.

The COS-16 can handle all

varieties of data, including binary and graphics files, even though these can contain exact equivalents of the COS-16's twocharacter switching codes. When you use the COS-16's "code repetition" feature, the unit waits for two, four, or even eight consecutive occurrences of the prefix character before recognizing a selection character and redirecting your data. This precaution dramatically lowers the odds of a switching error.

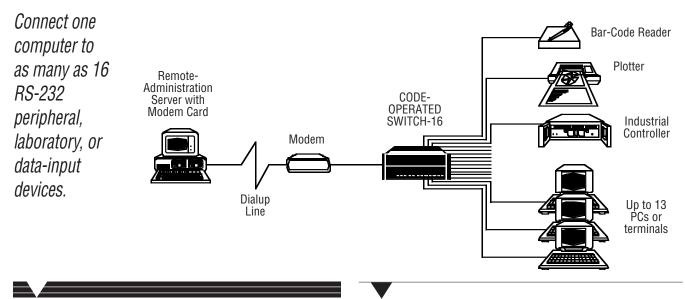
The COS-16 also has a "broadcast mode" feature. In broadcast mode, the device on the common port can simultane-ously transmit to all connected devices. This makes sending bulletins and upgrading firmware much easier.

With the basic COS-16, you can switch between up to 16 devices. To add more devices (up to a total of 64), just add one, two, or three 16-Port Expansion Units.

We also offer an RS-422 version of the COS-16 as a special quote; call for details.

Typical Applications

The COS-16 fits any site that relies on a large number of RS-232 devices—peripherals, terminals, lab equipment, etc. It's ideal for monitoring remote equipment or data-collection devices, polling bar-code readers, exercising units under test, or broadcasting to market-quote displays.



Technically Speaking

- The prefix (arming) character of the COS-16's switching code can be any ASCII character you choose. However, this character will pass through the COS-16 to the connected device, so we recommend using a nonprintable control code.
- The port-selection characters are the 64 ASCII characters from "@" (40 hex) to "DEL" (7F hex)—one for each possible port. The COS-16 absorbs the port-selection character rather than passing it through.

The complete package: • The Code-Operated Switch-16.

- A users' manual.
- A detachable power cord with a

Additional equipment you might need:

- One or more Expansion Units. Each Expansion Unit adds 16 more switched ports and consists of a large daughterboard assembly that you can easily install in the base unit's chassis.
- One or two Rackmount Kits. To rackmount a master unit or a master unit plus one Expansion Unit, you'll need one Kit. You'll need two Kits to rackmount a master unit plus two or three Expansion Units.
- An asynchronous RS-232 modem for long-distance offsite control of your devices.
- An RS-232 line driver for control from an office on

another floor or from a data centre in a nearby building.

• RS-232 cable.

NEMA 5-15P plug

- AC and data-line surge protectors.
- Interface converters to connect RS-422, RS-423, RS-449, RS-485, V.35, or X.21 devices to the COS-16.
- A country-specific power cord for operating the COS-16 outside of North America.
- Communications software.

Specifications

- Interface EIA RS-232; Common port: DTE; Switched ports: DCE
- **Protocol** Asynchronous
- Code Set ASCII
- Data Format Either 7 data bits with even, odd, mark, or space parity, or 8 data bits with no parity (user-selectable); 1 stop bit (fixed)

Flow Control — None

- **Operation** Full duplex
- Data Rate 150 bps to 19.2 Kbps, user-selectable
- Maximum Distance 15.2 m to attached devices over standard RS-232 cables
- User Controls (2) Bottommounted 8-position DIP switches for selecting the prefix character, code repetition, broadcast mode, and data rate; (1) Internal jumper for 110/220-VAC selection
- Indicators (26) Frontmounted LEDs: (16) Active Port; (4) Section; (1) each of PWR (power), TXD, RXD, RTS, CTS, ALL (broadcast)

- Connectors (17) Rear-mounted DB25 female for data: (1) common, (16) switched; (1) Rearmounted IEC 320 power inlet
- Leads Supported Pins 2 through 5 on all ports
- Power Through 1.8-m detachable power cord, power inlet, and internal power supply: Input: *Either* 110 VAC, 60 Hz, *or* 220 VAC, 50 Hz (user-selectable); Consumption: 30 watts

MTBF — 30,000 hours

Size — 8.9H x 43.9W x 22.9D cm

Weight —

Master unit: 3.2 kg; Expansion units: 1.8 kg

Ordering Information

This information will help you place your order quickly.

PRODUCT NAME Code-Operated Switch-16 (Master)	ORDER CODE
16-Port Expansion Unit for COS-16	SW057A
Rackmount Kit	RM056
Call for details on the RS-422 option for this switch.	