

MasterSwitch



Our most powerful serial and parallel data switch

Connect multiple inputs to multiple outputs

Up to four megabyte buffer

Combined automatic and code activated switching functions

Features and Benefits

- Uses standard RS232 serial and parallel Centronics interfaces
- Used for printer sharing, modem sharing, data collection, machine control, and serial networking
- Three model lines to choose from:
 - MS- SERIES - 5 or 9 ports, all serial, all parallel, or mixed serial and parallel
 - U-SERIES - 3, 6, or 9 ports, each port programmable as serial or parallel, input or output
 - N-SERIES - 4, 8, 12, or 16 serial ports and 1 parallel port, supports file transfer at 115.2K
- Dynamically allocated buffer expandable to four megabytes
- Over 20 commands for controlling the flow of data
- Menus for configuration, port contention and access, and job control
- Supplied with MasterLink™ utility disk
- Advanced queue system controls access and priority of multiple inputs to multiple outputs
- From job control menu - view all jobs in queue and cancel, hold, or release them
- All configuration parameters can be saved in non-volatile memory

The MasterSwitch™ Advantage...

The Master Switch is a versatile product for interconnecting your computers and peripherals using the common serial (RS232) and parallel (Centronics) interfaces of your equipment. The switch accepts over 20 commands for controlling the flow of data. It may also be used automatically or be controlled by interactive menus. Applications for the switch include office automation, CAD/CAM, machine control, data collection, data communications, telecommunications, retail point-of-sale, and others.

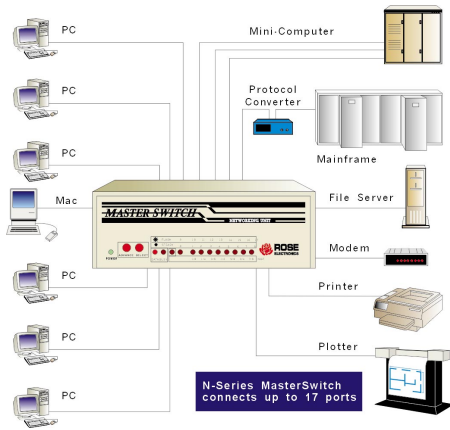
The MasterSwitch™ offers unmatched speed, power, and flexibility for PC and peripheral sharing. The MasterSwitch™ can manage and interconnect up to sixteen ports, and is chainable for further expansion.

The features of the MasterSwitch make it possible for this intelligent data switch to tackle the most demanding applications. With three model lines to choose from, there is a unit to meet your needs.

When it comes to managing peripherals and computer access, nothing comes close to the Rose MasterSwitch.



Typical Application



Basic Concepts Master Switch interconnects your computers and peripherals using their common serial and parallel interfaces. Any port can connect to another port. By sending a command or accessing a menu, you can choose the destination of your data. Master Switch activates port connections as you send data from your application or print program. If the selected destination is busy, the data is queued in the buffer until the destination port is available. The heart of the Master Switch is its power-ful queuing system, which takes multiple input data and routes it to multiple outputs. Using the job control menu or a simple keyboard entry, you can view the list of jobs at any time, even while printing. You can see where the job originated, its destination, the status, and the amount of buffer used. You can suspend, release, or cancel any of the jobs listed.

Master Switch Models Master Switch is available in three series. The original MS-series models have 5 or 9 ports and all serial, all parallel, or a mix of serial and parallel. Universal or MSU-series models are the most flexible, with 3, 6, or 9 ports - each programmable for serial or parallel operation. Networking or MSN-series models have 4, 8, 12, or 16 serial ports and 1 parallel port and support file transfer at 115.2K bits/second.

Buffer Memory The buffer is available to all ports. The basic unit has 64K bytes, expandable to 4 MB. The amount of buffer needed depends upon the application. If there is a lot of data coming in simultaneously, you are sending large jobs, or your outputs are slow devices, throughput can be increased by expanding the buffer size.

Cables Master Switch ports use commonly available serial and parallel cable. Cables are ordered by length and the type of device that is being connected. Please refer to the cabling section for further information.

Configuration To configure the Master Switch, you access its configuration menu, then simply select the types of devices you are connecting and choose their communication settings. Serial port settings are individually programmable, all ports can be defined as input or output. You can also program initialization strings, default destinations, timeout settings, port groupings, menu access, priority, and the port's name. Configuration is stored in the switch's non-volatile memory.

Commands Master Switch offers maximum job control, accepting over 20 commands via simple keyboard commands or pop-up menus. You can easily change a device's destination port, access the job control menu, and many others. Commands can be sent in several other ways such as from a batch file or an application program. Extensive features are supported for printer, plotter, and modem sharing, port contention and data collection.

ROSE ELECTRONICS - US HEADQUARTERS
10707 Stancliff Road ■ Houston, Texas 77099 ■ USA
Tel 281-933-7673 ■ Tel 800-333-9343 ■ Fax 281-933-0044

ROSE ELECTRONICS - EUROPEAN OFFICE
Bourne Works High Street ■ Collingbourne Ducis
Marlborough Wiltshire SN8 3EH ■ UNITED KINGDOM
Tel +44 (0) 126 485 0574 ■ Fax +44 (0) 126 485 0529

ROSE ELECTRONICS - ASIA PACIFIC OFFICE
PO Box 3184 ■ Robina T.C. ■ Queensland 4230 ■ AUSTRALIA
Tel +617 5525 2714 ■ Fax +617 5525 2875

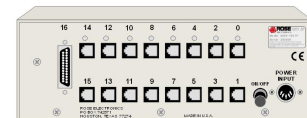
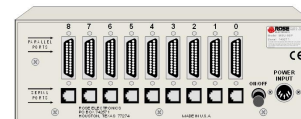
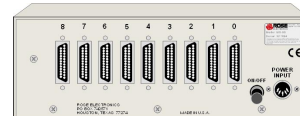
MasterLink™ Each unit comes with MasterLink, a pop-up PC program that makes it easy for you to send commands and access menus. MasterLink also has a terminal emulator program that provides pop-up interactive communication with the switch.

Part Numbers

Standard models MS-series	
MS-5S	5 serial ports
MS-9S	9 serial ports
MS-5P	5 parallel ports
MS-9P	9 parallel ports
MS-7S2P	7 serial, 2 parallel ports
Universal models U-series	
MSU-3SP	3 ports, programmable as serial or parallel
MSU-6SP	6 ports, programmable as serial or parallel
MSU-9SP	9 ports, programmable as serial or parallel
Networking models N series	
MSN-4S1P	4 serial, 1 parallel port
MSN-8S1P	8 serial, 1 parallel port
MSN-12S1P	12 serial, 1 parallel port
MSN-16S1P	16 serial, 1 parallel port
Buffer options, expandable to 4 megabyte	
/2X	256K buffer
/5X	512K buffer
/10X	1MB buffer
/20X	2MB buffer
/40X	4MB buffer

Specifications

Serial Ports	
Electrical	Asynchronous RS232 -9 to + 9 volts
Protocol	DTR/DSR, X-ON/X-OFF flow control
Baud Rate	50-19,200 baud (115,200 for MSN Series)
Word Length	5, 6, 7, or 8
Parity	odd, even, mark, space, or none
Stop bits	1 or 2
Parallel Ports	
Electrical	TTL Levels
Protocol	Centronics compatible STB/ACK/BUSY
General	
Dimensions	10.5" W x 5.0" D x 3.5" H (26.7 x 12.7 x 8.9 cm.)
Weight	2-5 ports 6 lb. (2.7 kg.) 9 ports 7 lb. (3.2 kg.) 13-17ports 8 lb. (3.6 kg.)
Power	Standard 110VAC; Optional 220 VAC MS/MSU Series: 16-20VAC 10VA MSN Series: 16-20VAC 20VA
Connectors	MS Series: Ser-DB25F; Par-Centronics 36F MSU/MSN Series: Ser-RJ45 jack; Par-DB25F
Signal Lines	Serial: 4 signals (XMIT, RCV, DSR, DTR) Parallel: 12 signals switched/inputs 5 signals steady or unused
Rack Mount	19" or 23"
Chassis	Painted tan aluminum or steel enclosure
Indicators	Port select LEDs: 0-8; Status LEDs: Power, Buffer, Data, Busy
Environment	0-55° C, 0-80% non-condensing rel. humidity



Rear view, MasterSwitch models MS-9S, MSU-9SP, MSN-17S1P

 **ROSE ELECTRONICS**
WWW.ROSEL.COM