

**DATACOMsystems®**  
**Switch Control Server**  
*Quick Installation Guide*



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This Quick Installation Guide was written to help you get to know your new Switch Control Server (SCS) quickly and easily. We would welcome any comments or suggestions you may have regarding this Quick Installation Guide. Please send your remarks and recommendations via mail, telephone, facsimile, or Internet E-mail.

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**Mail:** Datacom Systems, Inc.  
Customer Service  
9 Adler Drive  
East Syracuse, NY 13057-1290

**Tel:** (315) 463-9541

**FAX:** (315) 463-9557

**E-mail:** support@datacomsystems.com

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**OPTICALswitch**

| MODEL        | PORTS | TOPOLOGY                  | CONNECTIVITY |
|--------------|-------|---------------------------|--------------|
| 1X8SP-OM (S) | 8     | 100FX, OC3, OC12, Gigabit | Dual SC      |
| 1X8SY-OM (S) | 8     | 100FX, OC3, OC12, Gigabit | Dual SC      |

**LANswitch**

**ATM In-Line**

| MODEL           | PORTS | TOPOLOGY      | CONNECTIVITY |
|-----------------|-------|---------------|--------------|
| 2X8SY-ATM-M (S) | 2x8   | ATM, OC3-OC12 | Dual SC      |

**Ethernet/Token Ring**

| MODEL        | PORTS | TOPOLOGY              | CONNECTIVITY |
|--------------|-------|-----------------------|--------------|
| 2X16FD-SY    | 2x16  | 10/100 BaseT          | RJ45         |
| MX8100E/Tsl  | 2x8   | 10/100 BaseT or Token | RJ45         |
| MX16100E/Tsl | 2x16  | 10/100 BaseT or Token | RJ45         |

**Fiber Custom**

| MODEL     | PORTS | TOPOLOGY | CONNECTIVITY |
|-----------|-------|----------|--------------|
| 4XSPSY-CM | 4     | Gigabit  | Dual SC      |
| 4X8SY-CM  | 4X8   | Gigabit  | Dual SC      |
| 4X8SP4-CM | 4X8   | Gigabit  | Dual SC      |
| 4X16SP-CM | 4X16  | Gigabit  | Dual SC      |

**Gigabit In-Line**

| MODEL         | PORTS | TOPOLOGY | CONNECTIVITY |
|---------------|-------|----------|--------------|
| 1X8SY-SX (LX) | 1x8   | Gigabit  | Dual SC      |
| 2X8SY-SX (LX) | 2x8   | Gigabit  | Dual SC      |

**Gigabit SPAN**

| MODEL         | PORTS | TOPOLOGY | CONNECTIVITY |
|---------------|-------|----------|--------------|
| 1X8SP-SX (LX) | 1x8   | Gigabit  | Dual SC      |
| 2X4SY-SX (LX) | 2x4   | Gigabit  | Dual SC      |
| 2X8SY-SX (LX) | 2x8   | Gigabit  | Dual SC      |

**Gigabit SPAN + In-Line**

| MODEL          | PORTS | TOPOLOGY | CONNECTIVITY |
|----------------|-------|----------|--------------|
| 2X8SP4-SX (LX) | 2x8   | Gigabit  | Dual SC      |

**Receive Only**

| MODEL    | PORTS | TOPOLOGY | CONNECTIVITY |
|----------|-------|----------|--------------|
| 2X8RX-SX | 2x8   | Gigabit  | Dual SC      |

**ACCESSORY**

**Software**

MANAgents Multiple Agent Controlling Console Software

**Support**

M3415A V.35 Connectivity Panel  
RMC-3 1U Rack Panel for 3 Small Form DSI Products  
SCS Switch Control Server

**TAP**

**Ethernet/Token Ring**

| MODEL     | PORTS | TOPOLOGY     | CONNECTIVITY |
|-----------|-------|--------------|--------------|
| 10/100-AT | 1     | 10/100 BaseT | RJ45         |
| 1000BT-AT | 1     | 1000 BaseT   | RJ45         |

**Fiber**

| MODEL       | PORTS | TOPOLOGY                  | CONNECTIVITY |
|-------------|-------|---------------------------|--------------|
| F50/50/62-M | 1     | 100FX, OC3, OC12, Gigabit | Dual SC      |
| F50/50/50-M | 1     | 100FX, OC3, OC12, Gigabit | Dual SC      |
| F50/50/9-S  | 1     | OC3, OC12, Gigabit        | Dual SC      |

**PERMALink Tray**

| MODEL    | PORTS | TOPOLOGY                  | CONNECTIVITY |
|----------|-------|---------------------------|--------------|
| 8SY-M/62 | 8     | 100FX, OC3, OC12, Gigabit | Dual SC      |
| 8SY-M/50 | 8     | 100FX, OC3, OC12, Gigabit | Dual SC      |
| 8SY-S/9  | 8     | OC3, OC12, Gigabit        | Dual SC      |

**VERSAtap**

| MODEL     | PORTS | TOPOLOGY | CONNECTIVITY |
|-----------|-------|----------|--------------|
| 4SY-SX+4C | 4     | Gigabit  | Dual SC & LC |

**WAN**

| MODEL          | PORTS     | TOPOLOGY | CONNECTIVITY |
|----------------|-----------|----------|--------------|
| DS3AT1 (4) (8) | 1 (4) (8) | DS3      | BNC          |
| DS3-AT         | 1         | DS3      | BNC          |
| DS3/E3-PT      | 1         | DS3/E3   | BNC          |
| E3-AT          | 1         | E3       | BNC          |
| T1/E1-PT       | 1         | T1/E1    | RJ48         |

**VERSALink**

| MODEL       | PORTS | TOPOLOGY | CONNECTIVITY |
|-------------|-------|----------|--------------|
| 1X4SY-SX+2C | 1X4   | Gigabit  | Dual SC & LC |
| 1X8SY-SX+2C | 1X8   | Gigabit  | Dual SC & LC |
| 2X4SY-SX+2C | 2X4   | Gigabit  | Dual SC & LC |
| 2X8SY-SX+2C | 2X8   | Gigabit  | Dual SC & LC |

**WAN**

| MODEL        | PORTS | TOPOLOGY            | CONNECTIVITY |
|--------------|-------|---------------------|--------------|
| W2358Dsl     | 2X8   | WAN                 | DB15         |
| WX8T1/E1sl   | 2X8   | T1/E1               | RJ48         |
| WX16T1/E1sl  | 2X16  | T1/E1               | RJ48         |
| D28100BTsl   | 1x8   | 10/100BaseT and WAN | RJ48 DB15    |
| DS3-8Csl     | 2X8   | DS3                 | BNC          |
| 2X4SY-DS3/E3 | 2X4   | DS3/E3              | BNC          |

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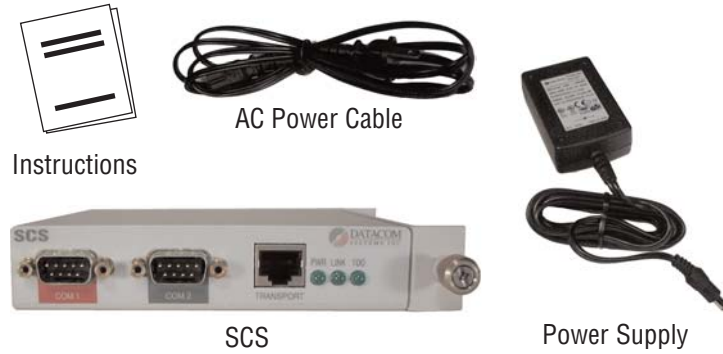
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**Warranty**

## 1 What's in the Package



## 2 Introduction

The Switch Control Server (SCS) is a resource sharing matrix switch control solution for hardware based network tools that do not support third party software.

SCS major features:

- "REMOTEagent" in a box
- Switch control in the absence of an API control function.
- IP addressable 10/100 Mb/s Ethernet Port
- Two COM Ports control up to eight switches

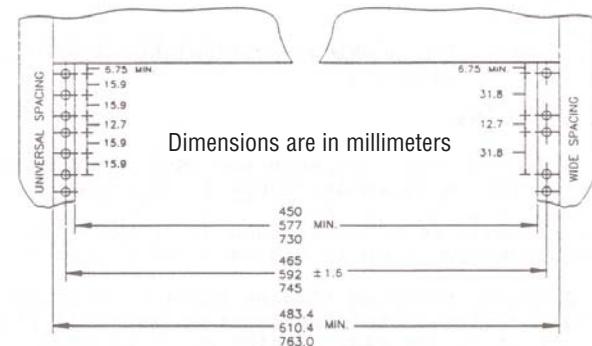
## 3 SCS Specifications

| Feature  | Specification   |
|--|---|
| Port Connectivity<br>COM 1<br>COM 2<br>TRANSPORT | DB9<br>DB9<br>RJ45  |
| Power Requirements                               | External power supply 5 VDC, 200 mA   |
| Operating Temperature                            | 0° to 40° C (32° to 104° F)   |
| Storage Temperature                              | -30° to 65° C (-22° to 149° F)  |
| Humidity   | Less than 95° C non-condensing  |
| Dimensions                                       | 1.10" (H) x 5.75" (W) x 5.75" (D)<br>(includes rack mount bracket)<br>28 mm (H) x 146 mm (W) x 146 mm (D) |
| Weight   | Unit - 12 ounces; Shipping - 2 pounds   |

## 4 Installing a SCS in an Equipment Rack

Prior to putting the SCS in a standard 19-inch rack, a couple of equipment considerations should be noted:

- Do you have universal or wide spacing flanges?



ANSI/EIA-310-D-1992 Mounting Flange Dimensional Requirements

The SCS occupies 1 unit of space when fastened in the middle hole of a universal flange. The SCS occupies a part of 2 adjoining units of space when fastened in a wide spacing hole of a universal or wide-spacing flange.

Do you need to install the SCS on the left or right side of the rack? The SCS ships with the rack mount bracket on the right side.

Do you want to fasten the SCS differently? Then remove and replace the bracket screws on the side chosen with through hole mounting tab facing the direction required. (The thumbscrew is used with an optional rack panel shown below.)



**The SCS can be installed in a optional rack panel, contact your SCS representative for further details.**



One SCS and Two taps shown mounted in optional rack panel

To put the SCS in a standard 19-inch equipment rack, follow these steps:

1. Decide where to place the SCS in the equipment rack.
2. Align the SCS through hole and the equipment rack hole.

3. Insert screw through the SCS bracket into the rack.
4. Tighten the screw until the SCS is secure in the rack.



SCS fastened on the right side of the equipment rack



SCS fastened on the left side of the equipment rack

## 5 Functional Operation

The front panel of the Switch Control Server is illustrated in Figure 1. The front panel is the location for all cable connections and the rear panel is the location for the power input connection.

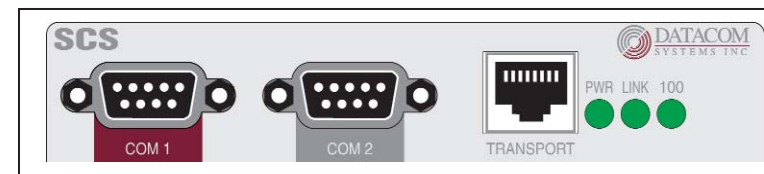


FIGURE 1 — Switch Control Server Front Panel

An explanation of each panel legend follows:

### COM 1 and COM 2

This port is a shielded DB9 Male connector and is cabled to the CONTROL port of the resource-sharing matrix switch. Because the CONTROL port has a modified serial configuration, Datacom Systems supplied control cabling must be used.

### TRANSPORT

This port is a shielded RJ45 Female connector and cabled to the TRANSPORT network.

### PWR

A green light indicates power is on.

### LINK

A green light indicates a link has been established between the Switch Control Server and the TRANSPORT network.

### 100

No green light indicates a 10 Mbs A green light indicates a 100 Mbs link has been established between the Switch Control Server and the TRANSPORT network.

## 6 Connecting a SCS to the the Network

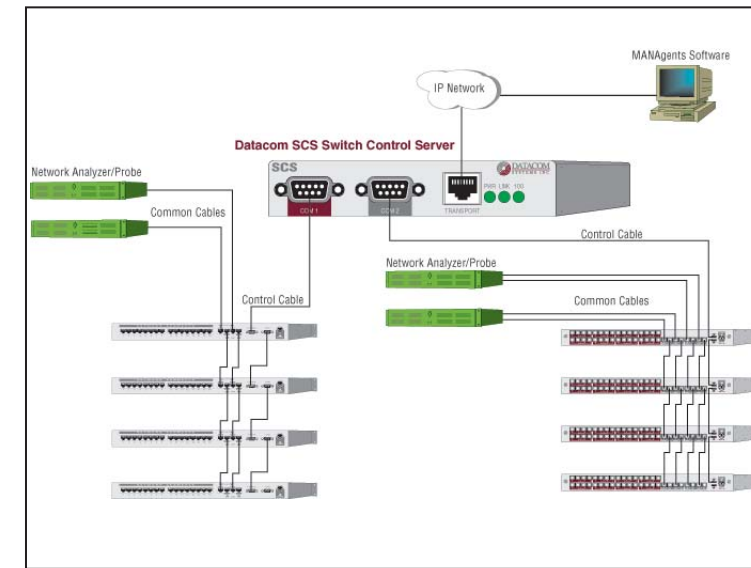


FIGURE 2 — SCS Simple Connectivity Diagram

To connect the SCS into the network, refer to Figure 2 and follow these steps:

**IMPORTANT: The maximum length of 400 feet must not be exceeded between end-points.**

1. Connect a resource-sharing matrix switch control cable to the Switch Control Server DB9 port **COM1** connector.
2. Connect another resource-sharing matrix switch control cable to the Switch Control Server DB9 port **COM2** connector.
3. Connect the network to the Switch Control Server RJ45 port **TRANSPORT** connector.
4. Connect the Power Supply barrel connector into the **POWER** port of the Switch Control Server and then plug the Power Supply into the external power source wall receptacle. The **POWER** LED to the right of the RJ connector illuminates indicating power is on.