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SecureSwitch®



Patented Dual Network Switch

Nu Data Part Number NJ005



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1. Specifications

Connectors - (4) - RJ-45

Grounding - Via shielded RJ45 connectors or screws
(screws are located at the rear panel
near their associated ports)

Mean Time Between Failures - 20,000 cycles A->B->A

Operating Temperature - 32 to 158°F (0 to 70°C)

Relative Humidity Tolerance -
10 to 95%, non-condensing

Power – Non-powered

Size - 2.8"H x 6"W x 6.3"D
(7.1 x 15.2 x 16 cm)

Weight - 4 lb. (1.8 kg)

2. Introduction

SecureSwitch switches between two Ethernet networks securely. SecureSwitch Dual Network Switch is EAL-4 Validated.

Each SecureSwitch contains two specially designed, PC-board-based switch assemblies. The assemblies are individually contained in completely separate shielded housings within the SecureSwitch .

The two knobs on the front of the Switch are connected by a crossbar, so they both switch at once. That crossbar is the *only* connection between the two switching mechanisms. There is *no* possibility of any electrical connection between the two networks, nor can more than one workstation be connected to a network at any time.

3. Installation and Operation

You need two network interface cards in your workstation - one for each network. Alternatively, you can use SecureSwitch to securely connect two workstations to two networks non-simultaneously.

1. Use only shielded network cables that have shielded RJ45 connectors when connecting to this Switch. Alternatively, you may use shielded network cables that do not have shielded RJ45 connectors when you strip out the shield drain wire **from both the network interface card ("N.I.C.") cable and the network cable** and wrap both of these wires under the grounding screw located nearest to the side of the switch to which you are applying the RJ45 network connectors.



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2. Connect the network cards in your workstation to the ports on the Switch marked “N.I.C.”
3. Connect the cables from the networks to the other ports on the Switch.

Make sure the card in your workstation and the network to which it should be connected are both plugged into the same side of the Switch. For example, connect both the N.I.C. from a classified workstation and the classified network to the “Green” side of the switch, while connecting the N.I.C. from the unclassified workstation and the unclassified network to the “Red” side of the switch.

Once the SecureSwitch is connected to the two networks, it’s working. There is no ON/OFF switch or power supply. To select the network you want to which you want to be connected, simply turn the knobs on the front panel. Inside the switch are two switching devices, which are separated by grounded shielding fabric. This fabric reduces crosstalk of electromagnetic signals.

SecureSwitch also has a control bar on the front panel of the box. This bar spans both of the switch control knobs to ensure that you are not double-connected to two different networks at the

4. Troubleshooting

4.1 Calling Your Supplier

If you determine that your SecureSwitch is malfunctioning, do not attempt to alter or repair the unit. It contains no user-serviceable parts.

Contact Nu Data at (732) 942-1007.

Before you do, make a record of the history of the problem. Your supplier will be able to provide more efficient and accurate assistance if you have a complete description, including:

- the nature and duration of the problem.
- when the problem occurs.
- the components involved in the problem.
- any particular applications that, when used, appears to create the problem or make it worse.

4.2 Shipping and Packaging

If you need to transport or ship your SecureSwitch :

- Package it carefully. We recommend that you use the original container.
- If you are shipping the SecureSwitch for repair, make sure you include everything that came in the original package. Before you ship, contact Nu Data to get a Return Materials Authorization (RMA) number at (732) 942-1007.

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