

# SSIM-T5-04 Token Ring SmartStack Interface Module

## Introduction

The SmartStack SSIM-T5-04 provides four additional Token Ring ports for the base SmartStack STS16-20RM or STS16-20FRM Token Ring switch. These ports can be configured just like the 20 fixed Token Ring ports on the base switch. Each or all of the interface module ports can be configured (in combination with any of the fixed ports on the base switch) to be used in CrossLink connections, and configured to be included in virtual LANs. The interface module ports support address filters and BOOTP/TFTP, Telnet or SNMP sessions.



Figure 1. SSIM-T5-04 interface module Front Panel

The ports on the SSIM-T5-04 interface module support Token Ring twisted-pair (UTP/STP) media via RJ-45 connectors. The interface module ports can be configured just like the base switch ports to provide either shared (half-duplex) 4 or 16 Mbps Token Ring connections or dedicated (full-duplex) 32 Mbps connections.

In addition to the RJ-45 Token-Ring connectors, there are 10 LEDs on the faceplate of the interface module (a set of two for each port plus two for the interface module general status). These LEDs indicate the operational status of the interface module and of the ports.

## SSIM-T5-04 Module Package Contents

The interface module package contains the following items:

- One SSIM-T5-04 SmartStack interface module for the Token Ring Switch
- One SSIM-T5-04 SmartStack Interface Module Installation Guide (this document)

## Installation

1. Power off the base switch by unplugging it.
2. Remove the plate covering the expansion slot on the front of the base switch by unscrewing the two retaining thumbscrews. Keep the plate for use in the event that the interface module is removed.
3. Carefully insert the interface module into the rails on each side of the expansion slot, sliding it back until the connector on the interface module is seated into the connector at the back of the slot. When the interface module is fully seated, the interface module faceplate will be flush with the front of the base switch.
4. Secure the interface module with the two attached thumbscrews.

## Cabling

For specifications and directions about cabling the UTP/STP universal expansion modules, see Appendix B in *SmartStack STS16-20RM/STS16-20FRM Token Ring Switches, Installation and User Guide*.

## LEDs

The interface module has 10 LEDs.

Table 1 lists the two status LEDs on the left front of the interface module and their meanings.

LED	Position	State	Meaning
DIAG (green)	Top	On	Diagnostics are in progress.
		Off	The interface module is working correctly.
ERR (yellow)	Bottom	On	An interface module failure has occurred.
		Off	The interface module is working correctly.

Table 1. Status LEDs and their meanings

Table 2 lists the port LEDs above each RJ-45 and their meanings.

LED	Position	State	Meaning
INSRT (green)	Left	On	The attached device is connected to the interface module port.
TX/RX (green)	Right	On or blinking	Data is being transmitted or received by the port.

Table 2. Port LEDs and their Meanings

## Testing the interface module

1. Power on the base switch to start diagnostics. The STS16-20RM Token Ring switch indicates that diagnostics are in progress by turning on its DIAG LED. After about a minute, the interface module DIAG LED will also be turned on.
2. Verify that the base switch diagnostics have been completed successfully. On the STS16-20RM, this is indicated when its DIAG LED is turned off, and the ERR LED stays turned off. Diagnostics can take up to four minutes to complete.
3. Verify that the ERR LED on the interface module is off. If it is off, diagnostics have been successfully completed, and the interface module is ready for configuration.

## Configuration

The interface module ports can be configured just like the base switch ports. They will appear as additional ports on any configuration panel where ports are listed. The port numbers will begin where the numbers of the base switch stop.

If for example the base switch has 20 ports and an interface module in the left front panel slot, the interface module ports will appear after Port 20 on the various port configuration panels and be designated 21, 22, 23 and 24. If the module is in the right front panel slot, the ports will be designated 25, 26, 27 and 28.

Follow the instructions contained in the *SmartStack STS16-20RM/STS16-20FRM Token Ring Switches, Installation and User Guide* for configuring the interface module ports.

## Troubleshooting

- If you are installing the interface module and the LEDs do not come on when the base switch is powered on, verify that the interface module is properly seated in the slot.
- During diagnostics, the interface module DIAG LED is on. If the ERR LED is on at any time, it indicates that the interface module is defective and needs to be serviced.

The individual interface module ports are like the base switch ports for the purposes of troubleshooting. See the *SmartStack STS16-20RM/STS16-20FRM Token Ring Switch, Installation and User Guide* for troubleshooting hints.



## Getting in Touch With Technical Support

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Publication: OC-7055 v. 1.0, 710001711  
Part Number: 9032969  
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### FCC Compliance

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

### Caution

The RJ-45 connectors may only be connected to SELV circuits (LAN communication).



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