



Technical Response Center

Customer Support Bulletin

DATE: August 16, 1994 **NUMBER:** CSB-ATM-9405

SUBJECT: SONET multi-mode fiber interfaces now use SC connectors

PRODUCTS: LattisCell ATM Switches Models 101xx

This Customer Support Bulletin documents SynOptics' move to equip all ATM LattisCell switches with ATM forum compliant Subscriber Connector (SC) connectors for SONET multi-mode fiber (MMF) interfaces. The first product to have SC connectors on the SONET MMF interfaces was the Model 10115. The transition was communicated in this model's Product Announcement sent out in late June. Since then, the changeover was also explained at the Mid-Year Technical School.

The ST connector was introduced on the LattisCell switches because optical transceivers with SC connectors were just beginning to appear on the market. When LattisCell started shipping last year, a production-worthy source of SC connectors was not readily available. While ST connectors were more common than SC connectors, they were not in compliance with the ATM Forum or ANSI specifications for SONET interfaces. The long term plan was for the switches to begin shipping with the standard compliant connector when the optics vendors were ready to completely support them.

As of August 1994, all LattisCell SONET MMF interfaces now use the SC connector. The LattisCell models affected by this change are listed below.

<u>Model No:</u>	<u>Configuration</u>
10114	All 16 SONET multi-mode fiber (MMF) ports are SC
10114-SM	Ports 1 – 14 (SONET MMF) are SC Ports 15 – 16 (SONET SMF) are ST
10114-DS3	Ports 1 – 14 (SONET MMF) are SC Ports 15 – 16 (75 ohm coax) are BNC
10115	Ports 1 – 12 (SONET UTP Cat 5) are RJ-45 Ports 13 – 16 (SONET MMF) are SC
10124-S	Ports 1 – 12 (4B/5B TAXI MMF) are ST Ports 13 – 16 (SONET MMF) are SC

NOTE: The SONET SMF interfaces on the 10114-SM will change over to SC connectors when optical vendors make the SMF SC connector available. There are no plans to change the 4B/5B TAXI MMF interface at this time.

The ATM industry today is almost 100% SC for SONET MMF interfaces. Most of these products have hit the market since the beginning of the year and use the duplex SC optics. All of the SONET ATM adapter cards shipping today, with the exception of the current SynOptics ATM adapter card, use SC connectors. Most routers with SONET ATM interfaces also use SC connectors. It is clear that while the transition from ST to SC will be an issue for some customers, the ATM market will standardize on the use of SC connectors for ATM MMF interfaces.

The majority of customer installations use an ST-based fiber patch panel to manage their cabling system. SC connectors can be accommodated by using the appropriate jumper cable to the patch panel. SynOptics offers such a cable on the price list (SynOptics part number 940-9). Additional manufacturers and their part numbers are listed below:

<u>Manufacturer</u>	<u>Part Number</u>
AMP	503625-3
Anixter	152013
Fujikura	CO73482
Siemens	JZ062ST003-C

Each of the jumper cables is a three meter, 62.5/125 μm multi-mode, zip fiber cable with duplex SC connectors on one end and ST connectors on the other end. Other suppliers can provide cables of different lengths.

Please inform your ATM customers of this interface change, especially if their order is currently being processed.

For Additional Assistance

Additional assistance and information about this matter can be obtained through SynOptics Technical Operations and Customer Service.