

Total Access® Quad BNC Adapter Module Installation and Maintenance

CONTENTS

1. GENERAL	1
2. FEATURES	1
3. INSTALLATION	3
4. CONNECTIONS	3
5. MAINTENANCE	3
6. PRODUCT SPECIFICATIONS	4
7. WARRANTY AND CUSTOMER SERVICE	4

FIGURES

Figure 1. ADTRAN Total Access Quad BNC Adapter Module	1
Figure 2. Block Diagram of the Quad BNC Adapter Module	2

TABLES

Table 1. Quad BNC Adapter Module Specifications	4
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1. GENERAL

This practice is an installation and maintenance guide for the ADTRAN Total Access Quad BNC Adapter Module illustrated in **Figure 1**. The 1181007L2 Quad BNC Adapter Module is designed to mount on the rear of the ADTRAN Total Access chassis, P/N 1181001L1 (23-inch) or 1182003L1 (19-inch).

The Quad BNC Adapter Module provides Dual STS-1 interfaces for the Total Access 3000 and Total Access 3010 Chassis. The Quad BNC Adapter Module must be used in conjunction with an OC-3 L2 MUX (P/N 1181031L2). It will also work in conjunction with either the L1 or L2 versions of the STS-1 MUX (P/N 1181030L1/L2). For information on the OC-3 L2 MUX, refer to ADTRAN Document 61181031L2-5A.

Revision History

This is the initial issue of this practice. Future revisions to this document will be explained in this subsection.

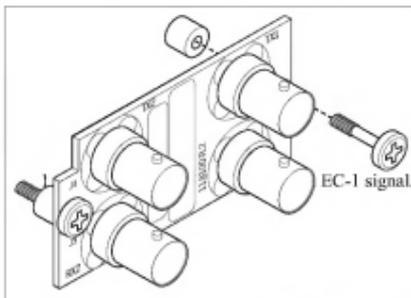


Figure 1. ADTRAN Total Access Quad BNC Adapter Module

2. FEATURES

The Quad BNC Adapter Module is designed to mount on the lower right-hand corner of the backplane of a Total Access 3000 or Total Access 3010 chassis. The unit provides the coax cable connections for two Total Access chassis which suhtend from a Total Access equipped with an OC-3 L2 MUX.

The Quad BNC Adapter Module for the Total Access chassis provides a data path for two STS-1s from the OC-3 equipment Total Access to the subtending Total Access chassis.

The Quad BNC Adapter Module provides:

2. A means of interfacing the transmit EC-1 line from either multiplexer module.
3. Four 75-ohm BNC connectors – two for transmit data and two for receive data.
4. Connection to the Total Access backplane at the 24-pin connector provided for that purpose and attaches with screws to ensure rigidity.

Figure 2 is a block diagram of the Quad BNC Adapter Module for Total Access 3000 and Total Access 3010.

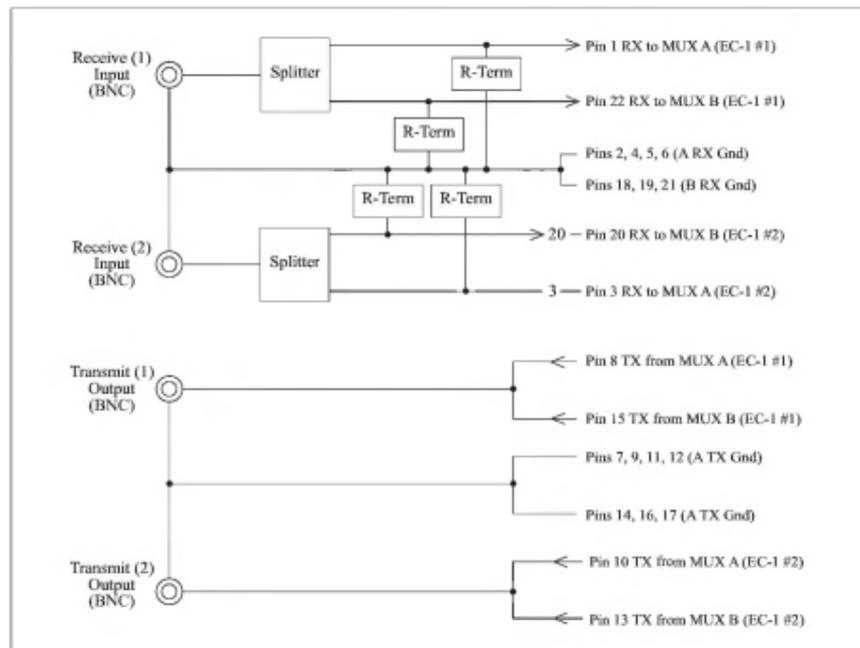


Figure 2. Block Diagram of the Quad BNC Adapter Module

3. INSTALLATION



After unpacking the unit, inspect it for damage. If damage is discovered, file a claim with the carrier, then contact ADTRAN. Refer to *Warranty and Customer Service*.

Two phillips-head captive screws are provided with the Quad BNC Adapter Module. Use the screws and a phillips screwdriver to attach the Quad BNC Adapter Module to the back of the Total Access 3000 or Total Access 3010 chassis with the screw spacer between the Quad BNC Adapter and the chassis surface.

CAUTION

This module should never be installed while power is present on the chassis. Doing so can cause damage to the backplane during installation.

To be UL 1950 certified, ADTRAN requires that these installation guidelines be followed:

- The Quad BNC Adapter Module is intended for installation in Restricted Access Locations Only.
- The Quad BNC Adapter Module must be installed in accordance with the requirements of NEC NFPA 70.

4. CONNECTIONS

Coax cable is easily connected to the Quad BNC Adapter Module. The RX connectors on the Quad BNC Adapter Module connect to the two EC-1 signals coming from the network. Similarly, the TX connectors on the Quad BNC Adapter Module connect to the two EC-1 signals going to the network.

To be UL 1950 certified, ADTRAN requires that the following connection guidelines be observed:

- The Total Access chassis must be connected to a reliably grounded -48 VDC source which is electrically isolated from the AC source.
- The frame ground stud located on the chassis must be connected to a reliable frame ground source.
- A readily accessible disconnect device that is suitably approved and rated must be incorporated into the fixed power wiring (e.g., Fuse and Alarm Panel).
- The branch circuit overcurrent protection must be a properly sized fuse or circuit breaker rated for -48 V.

5. MAINTENANCE

The ADTRAN Total Access Quad BNC Adapter Module does not require any routine maintenance for normal operation. ADTRAN cautions against performing major repairs in the field. Repair services may be obtained by returning the defective unit to ADTRAN. (Refer to the *Warranty and Customer Service* section of this practice.)

6. PRODUCT SPECIFICATIONS

Product specifications are detailed in **Table 1**.

7. WARRANTY AND CUSTOMER SERVICE

ADTRAN will replace or repair this product within the warranty period if it does not meet its published specifications or fails while in service. Warranty information can be found at www.adtran.com/warranty.

U.S. and Canada customers can also receive a copy of the warranty via ADTRAN's toll-free faxback server at 877-457-5007.

- Request Document 414 for the *U.S. and Canada Carrier Networks Equipment Warranty*.
- Request Document 901 for the *U.S. and Canada Enterprise Networks Equipment Warranty*.

Refer to the following subsections for sales, support, CAPS requests, or further information.

ADTRAN Sales

Pricing/Availability:
800-827-0807

ADTRAN Technical Support

Pre-Sales Applications/Post-Sales Technical Assistance:
800-726-8663

Standard hours: Monday - Friday, 7 a.m. - 7 p.m. CST
Emergency hours: 7 days/week, 24 hours/day

ADTRAN Repair/CAPS

Return for Repair/Upgrade:
(256) 963-8722

Repair and Return Address

Contact Customer and Product Service (CAPS) prior to returning equipment to ADTRAN.

ADTRAN, Inc.
CAPS Department
901 Explorer Boulevard
Huntsville, Alabama 35806-2807

Table 1. Quad BNC Adapter Module Specifications

Size:

2.3 in. H x 1.4 in. W x 1.75 in. D

Conforms to Total Access 3000 and 3010 mechanical and pinout requirements

Connector:

24-pin low profile .050 in. centers male header with end shrouds and guideposts

Environmental:

-40°C to +65°C operational

-40°C to +85°C storage

Up to 95% noncondensing humidity

Regulatory Requirements:

NEBS Level 3

GR-1089-CORE

UL1950