SLC-5 NULL
ISDN 2B1Q INTERFACE
DESCRIPTION

CONTENTS

FIGURES

TABLES

Figure 1. ADTRAN SLC-5 NULL Card

1. GENERAL

1.1 This practice provides an overall description of the ADTRAN SLC®-5 NULL card. **Figure 1** is a photograph of the NULL card. Part numbers and basic features for the NULL are provided in **Table A.**

1.2 Issue 2 of this practice revised subsections 1.3, 1.4, and Table C. Issue 3 adds the CLEI code.

1.3 The SLC-5 NULL card is designed to operate with AT&T SLC Series 5 equipment. The ADTRAN SLC-5 U-BR1TE is given access to the two time slots associated with its physical position in the bank; see ADTRAN SLC-5 U-BR1TE practices, Sections 61100040L1-5 and 61100040L1-2, for more information.

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The NULL card occupies the adjacent physical slot of a SLC-5 U-BR1TE (unless already occupied by a SLC-5 U-BR1TE) that is provisioned for NULL 2B+D. Consequently, only one NULL card is required per tri-slot group. Three time slots are required for transport of 2B+D information.

Table A. Basic Features

Unit	Part No.	Features
SLC-5 NULL	1200102L1	Accompanies SLC-5 U-BR1TE in 2B+D operation.
		FAIL LED indicates proper activation.
		Allows non-ISDN ready SLC-5 configurations to use SLC-5 ISDN U-BR1TE.
		Provides a four signal serial communication interface to the SLC-5 bank controller.

1.4 The ADTRAN SLC-5 NULL Card is a line card for use in AT&T SLC Series 5 central office terminals (COTs) or in SLC Series 5 remote terminals (RTs) that are not ISDN ready (see **Table B**). The NULL card is only required when an ADTRAN SLC-5 U-BR1TE is provisioned as NULL 2B+D. The NULL card must then occupy the adjacent physical slot unless occupied by another SLC-5 U-BR1TE.

Table B. ISDN Equipped Banks versus NULL Card Requirements

Location	BCU	NULL Card Requirement	S1-1 Setting
RT	MC97724A1	Yes	*On*
RT	MC97724A1B	No	*Off*
COT	MC97755A12	Yes	*On*
COT	MC97755A1BI1:1	No	*Off*
RT	MC97771A1	No	*Off*
RT	MC97776A1	Yes	*On*
RT	MC97776A1BI1:1	No	*Off*
Any	Any previous not listed	Yes	*On*

2. PHYSICAL DESCRIPTION

2.1 The SLC-5 NULL card plugs into a single SLC-5 channel slot. **Figure 2** shows placement examples for the ADTRAN SLC-5 NULL card.

2.2 **Figure 3** is an illustration of the ADTRAN SLC-5 NULL card faceplate. There is one LED on the front panel of the ADTRAN SLC-5 NULL card. The FAIL LED indicates the status of the allocation of additional time slots to the NULL card by the BCU. The FAIL LED remains *On* until the BCU allocates the additional time slots. The FAIL LED turns *Off* when the additional time slots have been allocated.
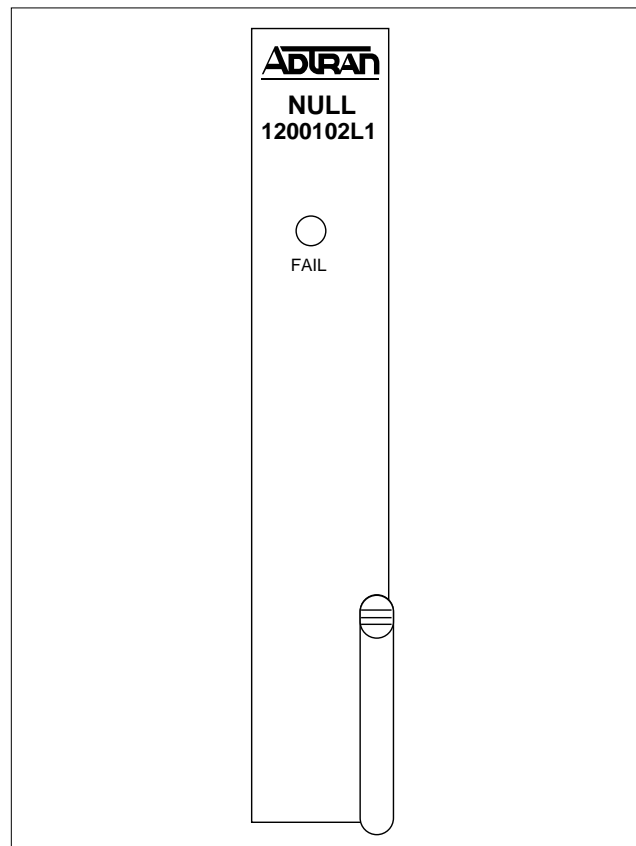

Figure 3. SLC-5 NULL Card Faceplate

3. DESIGN DESCRIPTION

The SLC-5 Null Card provides a four signal serial communication interface to the SLC series 5 BCU. Through this interface, the unit informs the BCU that the SLC-5 NULL card is a plain old telephone service (POTS) card requesting the time slots allocated to the physical location to which it is plugged in.

4. INTERFACE REQUIREMENTS

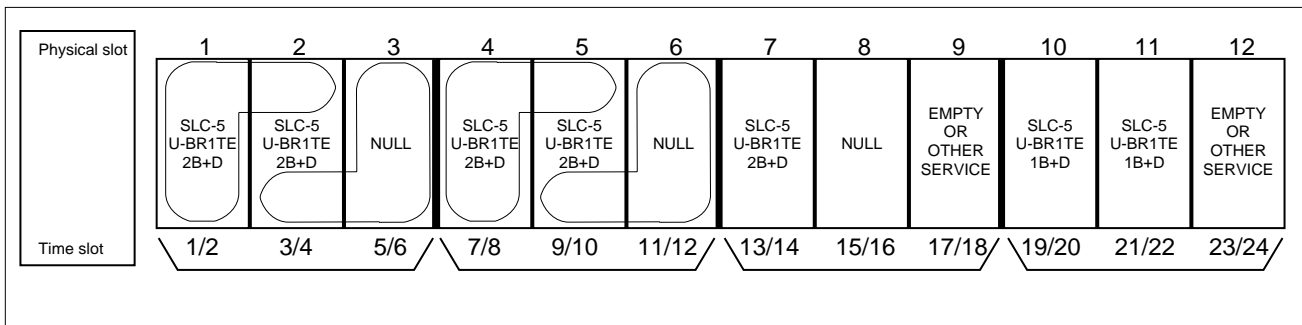The ADTRAN SLC-5 NULL card design interfaces with the SLC-5 bank controller as illustrated in **Figure 4.**

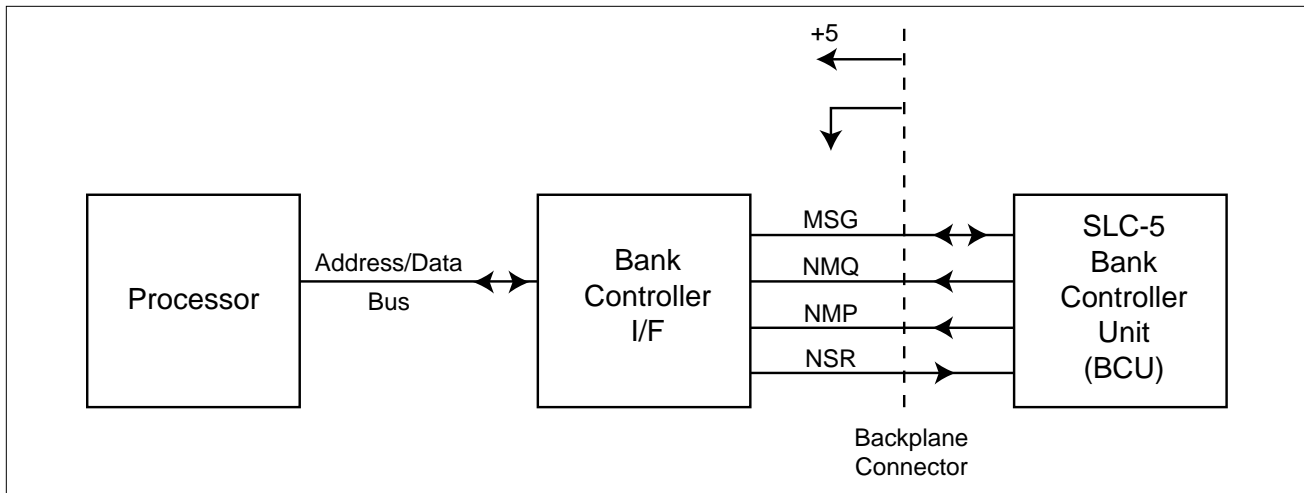**Figure 2. ADTRAN SLC-5 NULL Card Installation Examples**

Figure 4. SLC-5 NULL Card Block Diagram

5.   TESTING

The ADTRAN SLC-5 NULL card requires no testing. The FAIL LED located on the front panel of the NULL card indicates the operational status of the unit (see **subsection 2.2)**.

6.   SPECIFICATIONS

6.1   The specifications for the SLC-5 NULL card are listed in **Table C**.

7.   REFERENCES

7.1   For more SLC-5 NULL card information, refer to ADTRAN SLC-5 NULL Installation/Maintenance Practice, Section 61200102L1-5, ADTRAN Schematic 2200.102-1, and ADTRAN faceplate drawing number 3260.1530.

Table C. NULL Card Specifications

Facility Interface
Interfaces only with the SLC-5 channel bank controller

Faceplate Controls and Indicators	
Controls:	None
Indicators:	FAIL LED to display proper operation
Tests:	None

Mechanical	
Size:	10.69" Long, 3.75" High, 0.65" Wide
Weight:	4.5 oz, nominal
Mounting:	Mounts in AT&T SLC Series 5 channel banks

Power	
Current Drain	On-card dissipation
+5V	23 mA

Environmental		
Temperature:	Operating:	-40°C to +70°C
	Storage:	-40°C to +85°C
Relative Humidity:	Up to 95% non-condensing	