SLC® Series 5 Carrier System

AUA33( ) Current Sink Coin Channel Unit — 5SCU231 (AUA33) 5SC3RE0 (AUA33B)

Features/Functions

- Coin-first or dial-tone-first coin service
- Single channel current sink unit
- On-hook transmission (OHT) (AUA33B)
- Unique keying to prevent erroneous insertion in shelf
- No option switches
- BUSY LED on Faceplate
- Faceplate test access to tip and ring (AUA33B)
- Enhanced inventory (AUA33B)
- Conforms to appropriate industry standards

Description

This data sheet describes the AUA33( ) current sink coin channel unit (AUA33 COMCODE 103840500, AUA33B COMCODE 107590093) and is intended for the end-user of the unit. This data sheet is reissued primarily to add information on the AUA33B channel unit.

The AUA33( ) is a 2-wire analog voice-frequency (VF) channel unit. It is intended for use in all *SLC*® Series 5 and all *SLC*®-2000 central office terminals (COTs). The AUA33( ) channel unit provides a single (A/odd) channel of coin-first service using ground-start signaling or dial-tone-first service using loop-start signaling. Transmission parameters are fixed and the signaling mode is selected automatically. The channel unit stores a plug-in inventory record in non-volatile

memory, readable by a compatible host. The inventory record includes 10-character *COMMON LANGUAGE*[1] *CLEI*, COMCODE, ECI, Function, Loss, and ID codes. During a switch event to a protection line, the channel unit maintains the existing signaling state. In the event of a permanent carrier failure, the channel unit assumes the on-hook state.

Figure 1 shows the faceplate diagram and edge connector functions for the AUA33( ) CU. Table 1 lists the AUA33( ) signaling and transmission specifications.

Compatibility

The AUA33( ) channel unit is end-to-end compatible with *SLC* Series 5 AUA53( ) channel units and with *SPQ*453 *SLC* Series 5/*SLC*-2000 Access System dual coin current feed channel units. The AUA33( ) is compatible with all 1C/2C-type and 1D-type coin telephone sets served by these RT units.

The AUA33( ) is compatible with any switch that complies with Bellcore's *Local access and transport area (LATA) switching system generic requirements* (LSSGR)[2] for coin service, but must be co-located with the switch since the AUA33( ) is not designed to face the outside plant.

1 *COMMON LANGUAGE* is a registered trademark and *CLEI*, *CLLI*, *CLCI*, and *CLFI* are trademarks of Bell Communications Research, Inc

2 FR-NWT-000064, of which the following sections include requirements for a coin line interface: TR-NWT-000505, LSSGR, Call Processing, Section 5; TR-NWT-000506, LSSGR, Signaling, Section 6; TR-NWT-000507, LSSGR, Transmission, Section 7.

Specifications

The AUA33( ) channel unit conforms to the appropriate criteria of ANSI[1] , Bellcore, FCC, GTE, REA, and UL[2] standards.

Table 1 lists specifications that supplement or highlight the information found in AT&T 363-205-010, *SLC Series 5 Carrier Applications and Planning Guide*, Chapter 6.

Table 1. AUA33( ) Signaling and Transmission Specifications

Parameter	Value
T-to-R DC Resistance	≤ 1300 Ω off-hook
Coin-Ground DC Resistance	≤ 1600 Ω T-to-G, R-to-G
1kHz VF Loss	0.0 dB off-hook
	> 40 dB on-hook (AUA33)
	1.5 dB on-hook (AUA33B)
Structural Impedance	900 Ω + 2.16 µF
Balance Impedance	900 Ω + 2.16 µF

Installation and Testing

There are no switches to set on this unit. Procedures for testing the unit are given in AT&T 363-205-402 *SLC Series 5 Carrier System Channel Unit Installation and Testing.*

One of the following 5ESS Switch option settings is required for proper operation:

1. 5E9(2) or later, preferred: RANGEX=EXT
2. Prior generics, RANGEX=Y
3. All generics, acceptable: GNDREF=Y

The AUA33( ), is compatible with mechanized loop testing (MLT) and the pair gain test controller (PGTC) and the extended test controller (XTC) test systems. The AUA33( ) is not compatible with automatic line insulation testing (ALIT).

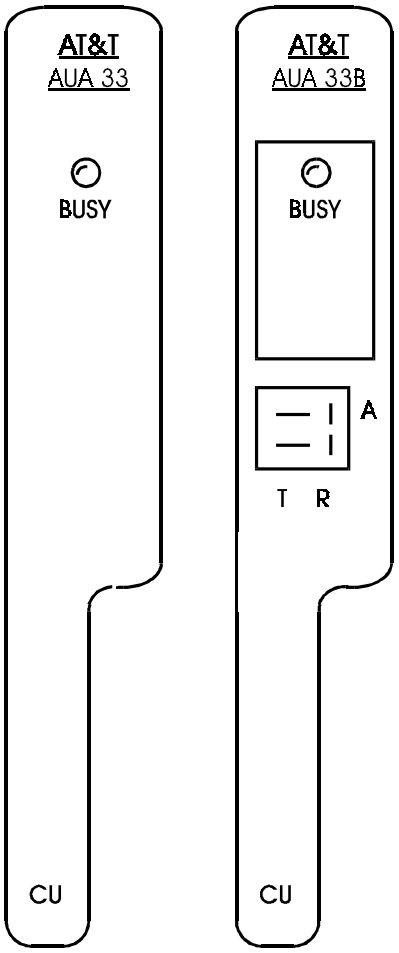
1 Registered trademark of American National Standards Institute, Inc.

2 Registered trademark of Underwriters Laboratories, Inc.

Faceplate Features

The AUA33( ) channel unit faceplates are shown in Figure 1. Both the AUA33 and AUA33B channel units have one red LED indicator; in addition to the LED the AUA33B has one faceplate jack. The faceplate jack provides convenient test access to the tip (T) and ring (R) of the odd (O) channel through a channel unit faceplate test cord, part number CiPT-5 orderable through CI Network Products; (708-806-6300).

BUSY (Red LED): The BUSY LED will light for 2 seconds upon power up (AUA33B) and continuously when the coin channel is off-hook.



Edge Connections	
Finger	Function
1	Frame Gnd
17, 19, 20, 21	Circuit Gnd
22, 23, 25, 50	+5 Volts DC
31	T
32	R
49	-5 Volts DC

Figure 1. AUA33 ( ) Faceplate Diagram and Edge Connections

References

The following documents provide additional information about the use of this channel unit in the *SLC* Series 5 Carrier System and *SLC*-2000 Access System:

AT&T 363-205-010	*SLC Series 5 Carrier System Application and Planning Guide*
AT&T 363-205-400	*SLC Series 5 Carrier System Central Office Terminal Acceptance and Turnup*
AT&T 363-205-402	*SLC Series 5 Carrier System Channel Unit Installation and Testing*
AT&T 363-205-500	*SLC Series 5 Carrier System Maintenance and Trouble Clearing*
AT&T 363-208-000	*SLC*-2000 *Access System Application, Planning, and Ordering Guide*
AT&T 915-710-115	*SLC Series 5 Carrier System Application Engineering*

Technical Assistance

Follow local procedures for obtaining technical assistance. AT&T also provides in-hours or emergency out-of-hours help for the *SLC* Series 5 Carrier System and the *SLC*-2000 Access System. Call the AT&T Regional Technical Assistance Center at 1-800-225-RTAC.

Ordering Information

Additional copies of this document (AT&T 363-005-103) are available from the Customer Information Center — call 1-800-432-6600.

Comments

Comments about this document can be directed to:

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