SLC®-2000 Access System/ *SLC*® Series 5 Carrier System

SPQ®333 Dual Current Sink Coin Channel Unit — 5SC3EE0

Features/Functions

- Coin-first or dial-tone-first coin service
- Dual channel current sink unit
- On-hook transmission (OHT)
- No option switches
- Faceplate BUSY LED for each channel
- Faceplate test access to tip and ring for each channel
- Enhanced inventory readout
- Conforms to appropriate industry standards

Description

This data sheet describes the *SPQ*333 dual current sink coin channel unit (COMCODE 107500738) usable in a Release 3.3 (or higher) *SLC*-2000 Access System central office terminal (COT), and in a *SLC* Series 5 Carrier System COT operating in Feature Package C (FPC), and is intended for the end-user of the unit.

The *SPQ*333 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 *SPQ*333 channel unit provides two channels 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

when installed in a *SLC*-2000 COT. The inventory record includes 10-character *COMMON LANGUAGE*[*] *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 *SPQ*333 dual current sink coin CU. Table 1 lists signaling and transmission specifications for the *SPQ*333 CU.

Compatibility

The *SPQ*333 dual current sink coin channel unit is end-to-end compatible with coin current feed channel units that conform to the signaling requirements of TR-TSY-000008[†] and that are hosted by a compatible remote terminal (RT). If the *SPQ*333 CU is installed in a *SLC*-2000 Access System COT, it is compatible with the *SPQ*453 dual coin CU and the AUA53( ) single coin CU when each is hosted by a *SLC*-2000 RT. If the *SPQ*333 CU is installed in a *SLC* Series 5 COT, the far end terminal must be a Series 5 RT hosting an *SPQ*453 or AUA53( ) CU. The term “host” denotes that the channel unit is installed either in the RT or in a subtending multi-services distant terminal (MSDT). Only the odd channel provided by the *SPQ*333 channel unit is usable when the far end is terminated by an AUA53( ) CU.

The *SPQ*333 dual current sink coin channel unit is compatible with any switch that complies with Bellcore’s *local access and transport area (LATA) switching system generic requirements* (LSSGR)[‡] for coin service, but must be co-located with the switch since the *SPQ*333 CU is not designed to face the outside plant.

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

† TR-TSY-000008, “Digital Interface Between the *SLC*®-96 Digital Loop Carrier System And A Local Digital Switch,” Bell Communications Research.

‡ 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 *SPQ*333 dual current sink coin channel unit conforms to the appropriate criteria of ANSI* , Bellcore, FCC, GTE, REA, and UL† 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, and in AT&T 363-208-000, *SLC*-2000 *Access System Applications, Planning, and Ordering Guide,* Chapter 4.

Table 1. *SPQ*333 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
	1.5 dB on-hook
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* and AT&T 363-208-001, *SLC*-2000 *Access System User/ Service Manual*.

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 *SPQ*333, is compatible with mechanized loop testing (MLT) and the pair gain test controller (PGTC) and the extended test controller (XTC) test systems. The *SPQ*333 is not compatible with automatic line insulation testing (ALIT).

* Registered trademark of American National Standards Institute, Inc.

† Registered trademark of Underwriters Laboratories, Inc.

Faceplate Features

The *SPQ*333 dual current sink coin channel unit faceplate is shown in Figure 1. The faceplate jack provides convenient test access to the tip and ring through a channel unit faceplate test cord, part number CiPT-5 is available from CI Network Products; (708-806-6300). The following LED indicators are located on the faceplate:

BUSY A (Red LED): The A channel (channel 1) is busy when lit.

BUSY B (Red LED): The B channel (channel 2) is busy when lit.

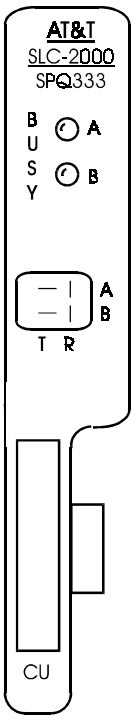

Figure 1. *SPQ*333 Faceplate Diagram

Table 2. Edge Connections For *SPQ*333 Dual Current Sink Channel Unit

Finger	Function
1	Frame Ground
17, 19, 20, 21	Circuit Ground
22, 23, 25, 50	+5 Volts DC
26	-48 Volts DC
29	T1 (2nd channel)
30	R1 (2nd channel)
31	T (1st channel)
32	R (1st channel)
49	-5 Volts DC

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 363-205-402 *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 363-208-001 *SLC*-2000 *Access System User/Service Manual*

Technical Assistance

Follow local procedures for obtaining technical assistance. Lucent Technologies 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 Lucent Technologies Regional Technical Assistance Center at 1-800-225-RTAC.

Ordering Information

Additional copies of this document (363-005-331) 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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