AT&T

SLC® Series 5 Carrier System

AUA57 (RT) Channel Unit - 5SCUT04

Data Sheet

This data sheet describes the AUA57 channel unit (CU) (COMCODE 103840765) and is intended for the end-user of the unit. The AUA57 CU furnishes a current feed interface to the customer loop for frequency-selective ringing (FSR) applications. This plug-in provides one channel of service (the odd channel), and will always be located at the remote terminal (RT). The central office terminal (COT) end of the channel will be terminated with a AUA37 COT FSR channel unit. The AUA57 may also be used in MODE 96 applications since its signaling states are compatible with the *SLC*® 96 COT FSR (WP33) channel unit. In the MODE 96 configuration a *SLC* 96 with a WP33 channel unit is used at the COT and a *SLC* Series 5 Carrier System with an AUA57 channel unit is used at the RT.

This data sheet is reissued to change reference of WP11 CU to the WP33 CU.

Figure 1 is a functional block diagram of the unit, and Figure 2 shows the faceplate and switch location.

This AUA57 CU provides a voice frequency interface with a nominal structural impedance of 900 ohms in series with 2.16 μF. In the off-hook state the channel unit provides 1 dB loss in both directions. The channel unit provides a loop-start interface to a customer station and is designed to operate with 0 to 900 ohm loops.

A three-position switch on the channel unit is set in one of the three positions to determine which ringing group will be applied. Below the switch are designations marked D H S, corresponding to the Decimonic, Harmonic, and Synchromonic frequency groups, respectively (see Table 1). The switch should be set to one of the three groups when the channel unit is installed at the remote terminal. A frequency group is selected when a switch is pressed away (toward ON) from the

frequency group designation (D, H, or S). Figure 2 shows the switch set to select the Harmonic frequency group. If the switch is set to an invalid setting (for example, both D and H selected or no group selected) the BUSY LED on the channel unit will flash at a 4-Hertz rate. All channel unit functions will be disabled until the switch is set to a valid setting.

Table 1. AUA57 Output Frequencies (Note 1)

Group	Frequency Band (Hz)				
	1	2	3	4	5 (Note 2)
Decimonic	20.0	30.0	40.0	50.0	60.0
Harmonic	16.6	25.0	33.3	50.0	66.6
Synchromonic	20.0	30.0	42.0	54.0	66.0

Notes:

1. The recommendation is to use a maximum of two phones per frequency.
2. The MODE 96 configuration does not support the highest ringing frequency (60, 66, or 66.6 Hertz). Therefore, only the four lower frequencies in each group are available in the MODE 96 configuration.

When used with the *SLC* Series 5 AUA37 FSR channel unit at the COT end, the AUA57 also offers 2-party automatic number identification (ANI). This capability is not available with the MODE 96 configuration.

The AUA57 channel unit is fully compatible with the Pair Gain Test Controller (PGTC) *and* eXtended Test Controller (XTC) test systems.

A **BUSY** LED indicates when the channel is busy, and a faceplate jack provides convenient test access to the tip (T) and ring (R) of the channel. A test cord (COMCODE 405755208) is required to plug into the jack.

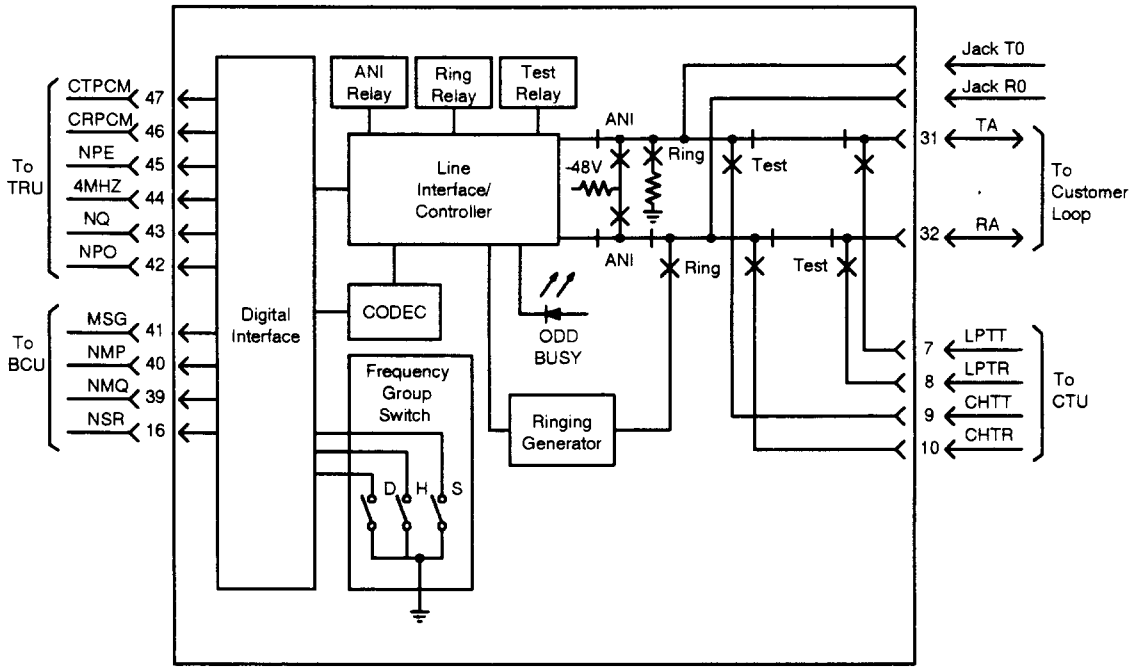

Figure 1. AUA57 Block Diagram

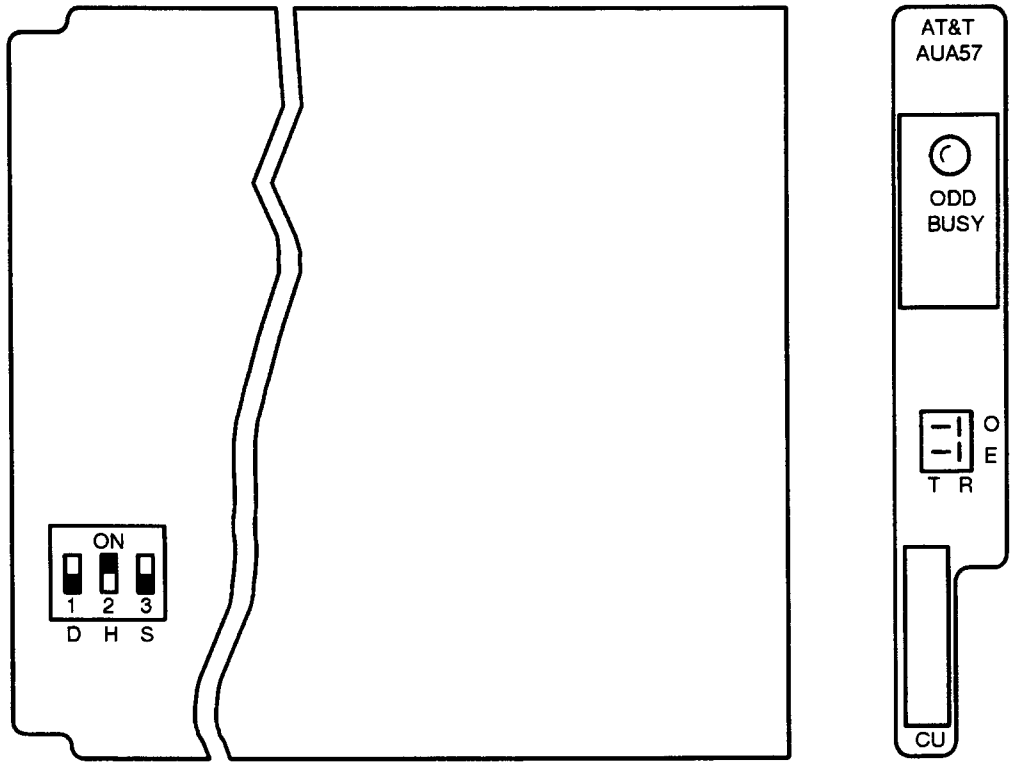

Figure 2. AUA57 Faceplate and Switch Location

In-hours or emergency out-of-hours technical assistance for the *SLC* Series 5 Carrier System can be obtained by calling the Regional Technical Assistance Center at **1-800-225-RTAC.**

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