



## **SLC<sup>®</sup>-2000 MSDT**

### **AUA423 Ringing Generator Unit — 5SPQABL**

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This data sheet describes the AUA423 ringing generator unit (RGU) (COMCODE 106835598) and is intended for the end-user of the unit. The AUA423 RGU is designed to be used at a SLC<sup>®</sup>-2000 Multi-Services Distant Terminal (MSDT) to provide 20-Hz negative-superimposed ringing current to satisfy the ringing requirements of the MSDT for loop applications up to 1,500 ohms in conjunction with the MC97789A1 backplane interface unit (BIU).

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

The AUA423 RGU receives an input voltage in the  $-42$  to  $-60$  V DC range from the power converter unit (PCU) and supplies a ringing voltage of 20 Hz,  $100 V_{\text{rms}}$  sine wave, superimposed on the negative input voltage to three lines simultaneously. Each line is allowed to have a maximum load of five ringer equivalent numbers (RENs).

The output alarm monitor circuit in the AUA423 RGU monitors the output ringing voltage for an over or undervoltage condition. If either condition is present, the FAIL LED on the RGU faceplate is lighted and alarm information is fed to the inventory circuit, which stores the information and makes it available to the operations interface processor upon request.

The AUA423 RGU output is protected from lightning and power surges by the output surge protection circuit. The output is also current limited to  $350 \text{ mA}_{\text{rms}}$ .

## Unit Indicator

**FAIL (Red LED):** When lighted, indicates that an under or overvoltage condition exists on the 20-Hz ringing voltage leads or that a failure has occurred in the primary side of the RGU.

## Unit Options

**-20HZ, -48V, GND (Test points):** These test points are provided on the faceplate to allow access to the 20-Hz ringing voltage, -48 V DC input, and ground.

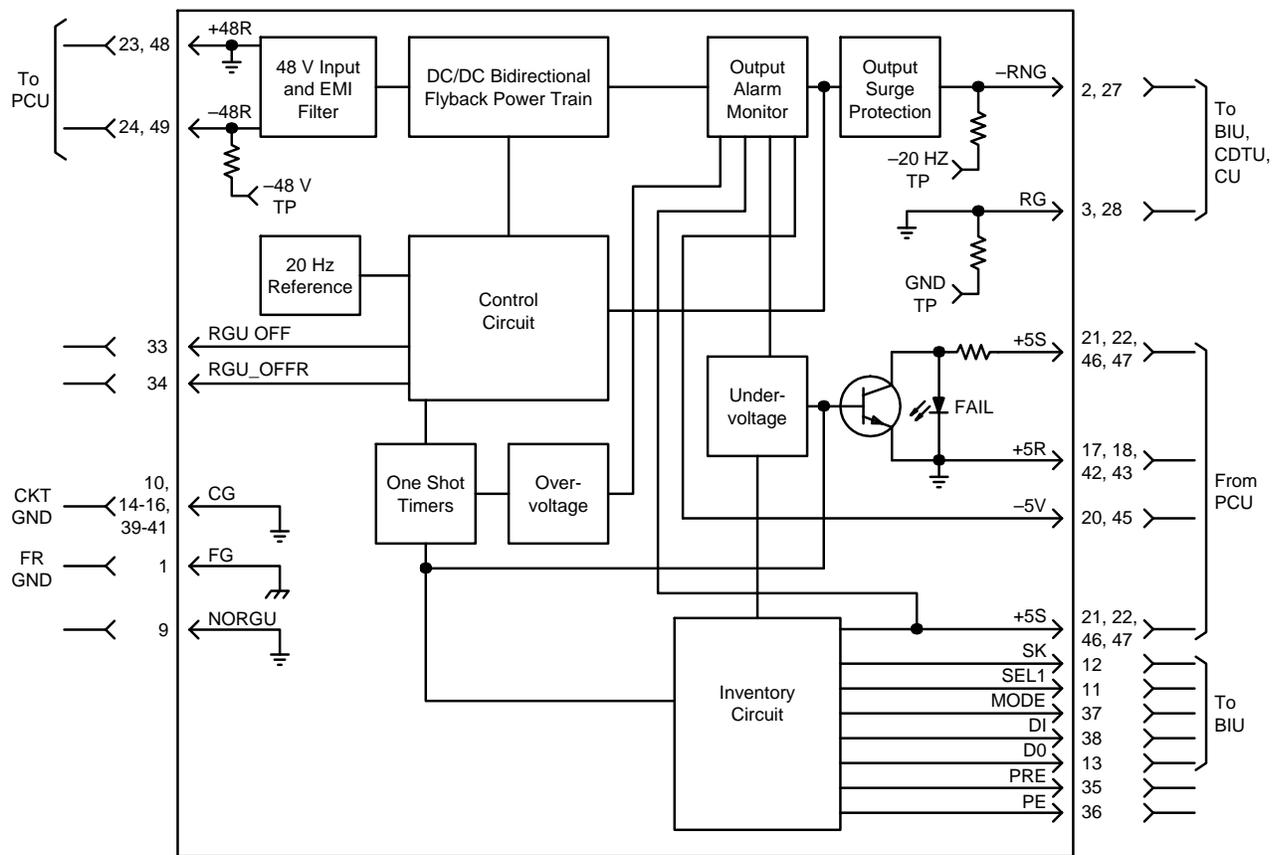
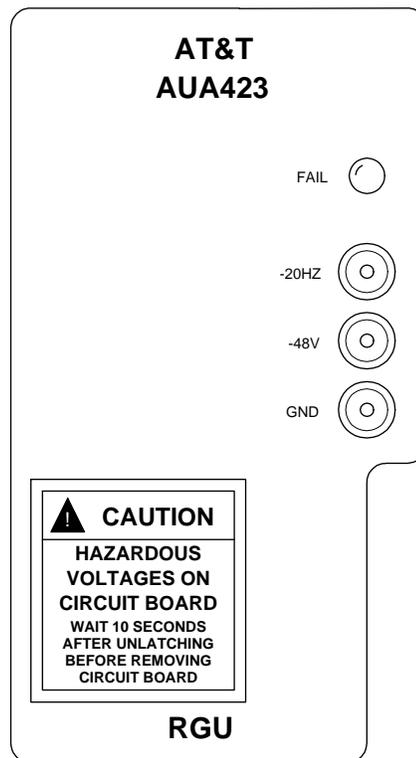


Figure 1. AUA423 RGU Block Diagram



**Figure 2. AUA423 RGU Faceplate**

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*. Call the AT&T Regional Technical Assistance Center at **1-800-225-RTAC**.

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