
***SLC*[®] Series 5 Carrier System**

AUA419 Shelf Common Unit — 5SPQAA2

This data sheet describes the AUA419 shelf common unit (SCU) (COMCODE 106451826) and is intended for the end-user of the unit. The AUA419 SCU is designed to be used in the 130 V DC application of a *SLC*[®]-2000 multi-services distant terminal (MSDT) network powering system (NPS) node. The NPS provides remote network powering of MSDTs that are part of *SLC* Carrier Systems featuring Fiber-In-The-Loop (FITL). The circuitry in the AUA419 SCU provides DC-to-DC voltage conversion, a lamp indicator test, and a delayed "on-battery" signal.

This data sheet is reissued to reference the AUA428 limited output source unit (LOSU) and to make other minor changes.

Figure 1 is a functional block diagram of the unit, and Figure 2 shows the board outline and the positioning of the switches and indicators.

The AUA419 SCU accepts -48 V DC from the battery plant, converts it to $+5$ V DC, and feeds it to the alarm circuitry in the AUA418 (LOSUs).

When the network powering system has been operating on batteries for three continuous minutes, the timing circuit in the AUA419 SCU will send a signal to the associated AUA418 or AUA428 LOSUs.

Alarm information from the AUA419 SCU and associated AUA418 or AUA428 LOSUs is collected by the SCU and sent to the network powering system status panel in the form of a contact closure.

FAIL (Red LED): When lighted, indicates an internal failure within the AUA419 SCU.

ON BAT (Yellow LED): When lighted, indicates that the network powering system is operating on backup batteries.

LED TEST (Faceplate Pushbutton): When pressed, this switch activates the indicators on the AUA419 SCU and all associated AUA418 or AUA428 LOSUs.

ON/OFF (Board-Mounted Switches): These switches (Figure 2) select the type of limiter shelf that the AUA419 SCU will monitor according to Table 1.

Table 1. Limiter Shelf Option Switch Configurations

Switch 1	Switch 2	Limiter Shelf Type
OFF	OFF	All Narrowband
ON	ON	Not used
OFF	ON	Not used
ON	OFF	Not Used

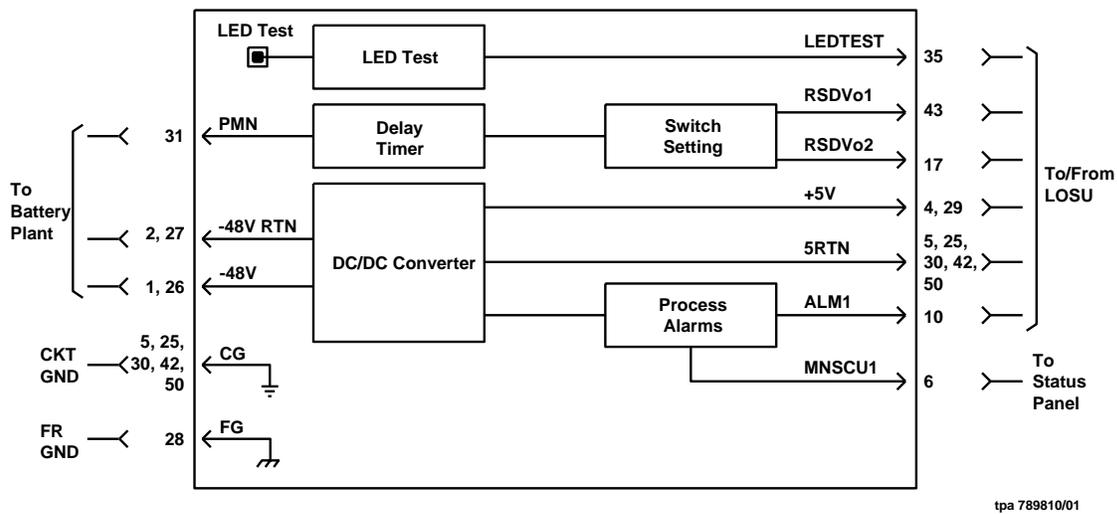


Figure 1. AUA419 SCU Block Diagram

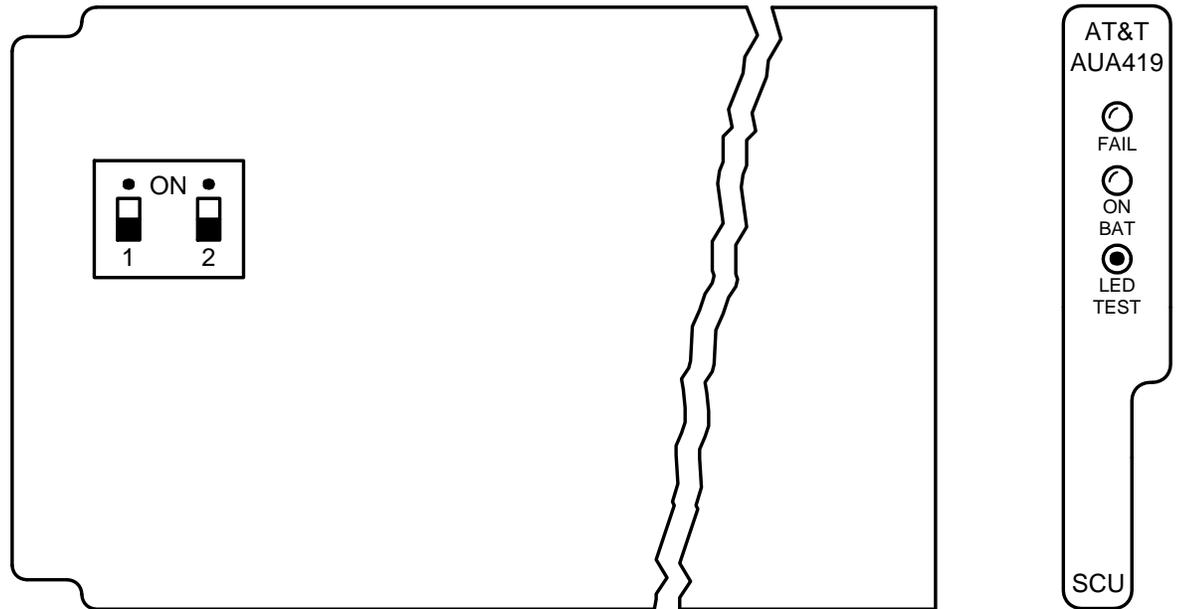


Figure 2. AUA419 SCU Faceplate and Board-Mounted Switches

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**.

Additional copies of this document (AT&T 363-005-283) are available from the Customer Information Center — call 1-800-432-6600.

Comments about this document can be directed to:

AT&T Customer Education and Training (CE&T) Organization
Attention: Publishing Services Department
2400 Reynolda Road
Winston-Salem, NC 27106

Copyright © 1994 AT&T
All Rights Reserved
Printed in U.S.A.