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AUA402 (RT) ALARM/FAN CONTROL UNIT 5SCF300CXX
DATA SHEET
SLC® SERIES 5 CARRIER SYSTEM

The AUA402 A/FCU (alarm/fan control unit) (COMCODE 104432877) is intended for use on *SLC* Series 5 carrier systems employing the Fiber-To-The-Home feature. The unit is located in the RT optics power shelf assembly and provides signals (–48 and GND), via ringing generator alarm inputs (RGMJ and RGMN), to alert the *SLC* Series 5 carrier system RT (remote terminal) dual bank assembly of a power failure on the optical shelves.

This practice is reissued to make minor editorial changes.

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

The A/FCU accepts alarm inputs indicating a loss of ±5 Vdc to any of the eight AUA11B PCUs (power converter units) located in the RT optics power shelf assembly. The unit also detects the absence of a PCU in the RT optics power shelf assembly. Duplicate circuitry in the A/FCU monitors the PCUs as two groups of four (PCU1 - PCU4 in one group and PCU5 - PCU8 in the other group). Each circuit monitors alarms and detects the absence of a PCU from its particular group. Alarms for PCUs 1 through 4 are sent to the lower RT dual bank assembly (RGMJ1 and RGMN1). Alarms for PCUs 5 through 8 are sent to the upper RT dual bank assembly (RGMJ2 and RGMN2). Loss of –48 Vdc power to the PCUs or ±5 Vdc to the AYB1 optical units is registered as a major alarm. Power loss on the lower two optical shelves will generate a major alarm at the lower RT dual bank assembly by causing –48 Vdc to be placed on the RGMJ1 line connected to the lower RT dual bank assembly. In the same manner, power loss on the upper two optical shelves will cause a major alarm to appear on the upper RT dual bank assembly via the RGMJ2 line.

The A/FCU contains a temperature sensor circuit which controls the operation of the fans in the 2A fan shelves. The fans will be turned on when the temperature exceeds 105°F and will be turned off when the temperature drops below 68°F. The fans may also be activated manually by the pushbutton switch on the faceplate of the A/FCU.

The A/FCU also provides –48 Vdc to the BPC (bulk power closure) line. This signal is sent back to the RT optics power shelf through a relay on the PMN line when ac power is lost to the bulk power supply.

Faceplate LEDs indicate as follows:

- ***MJ1*** (red LED): When lighted, indicates a major alarm and loss of customer service.
- ***MN1*** (amber LED): When lighted, indicates a loss of power to the A/FCU.

The FAN TEST pushbutton switch on the faceplate is used to manually activate the fans in the 2A fan shelves.

Technical assistance for the *SLC* Series 5 carrier system can be obtained by calling the Regional Technical Assistance Center at **1-800-225-RTAC**. This telephone number is staffed 24 hours per day.

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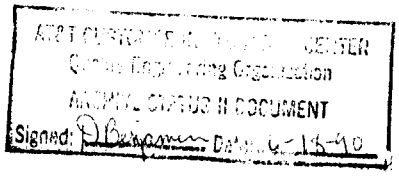

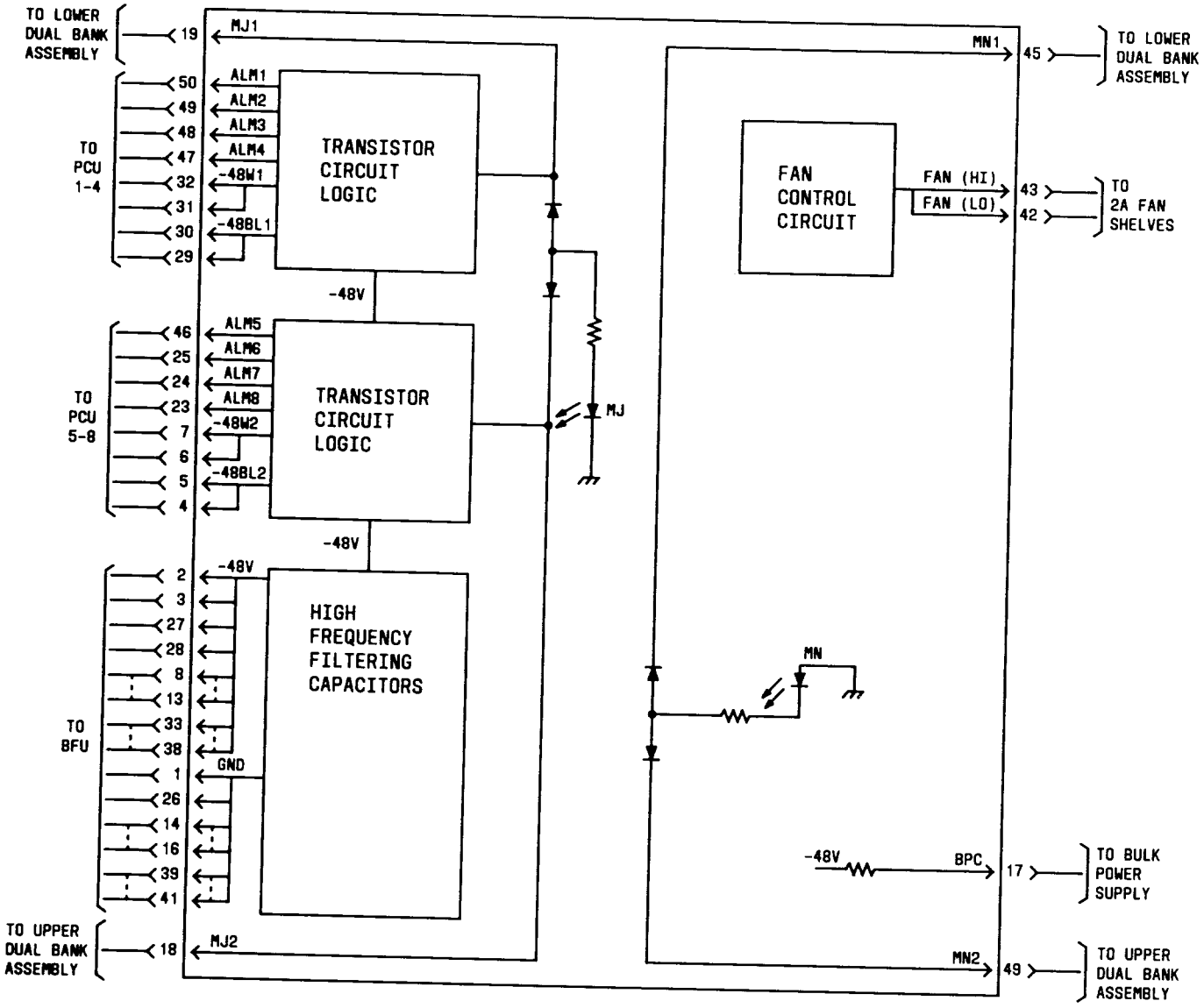

Figure 1—AUA402 A/FCU Block Diagram

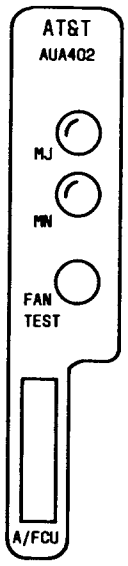

Figure 2—AUA402 A/FCU Faceplate