



SLC[®] Series 5 Carrier System

AUA406 (RT) MSDT Server 6 to 24 DS0 — 5SCF660

This data sheet describes the AUA406 MSDT Server (COMCODE 105516447) and is intended for the end-user of the unit. The AUA406 CU is designed to support the SLC[®]-2000 multi-services distant terminal (MSDT) used in SLC Carrier Systems featuring Fiber-In-The-Loop (FITL). The AUA406 Server is always located in a remote terminal (RT) that is interconnected to a central office terminal (COT) in a universal configuration. The AUA406 Server provides between 6 and 24 channels of service at the 1.544 Mb/s rate to a single MSDT over a fiber optic loop. On the loop side, the AUA406 Server interfaces an AYB1B optical unit (OU) using a balanced interface. On the system side, the AUA406 Server interfaces with the transmit/receive unit (TRU) and the bank control unit (BCU).

This data sheet is reissued to update the block diagram (Figure 1) and make minor editorial changes.

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

The AUA406 Server is a triple-width unit comprised of two circuit boards joined together with one common faceplate. It occupies three adjacent channel unit slots in the RT shelf. In the transmit direction (toward the MSDT), the AUA406 Server accepts from six to twenty-four 16-bit time slots from the backplane bus, isolates and buffers the signaling and control bytes, and sends them in pulse code modulation (PCM) format to the transceiver. The transceiver multiplexes this signal with framing and signaling into a 1.544 Mb/s bit stream and feeds it to the backplane interface logic (BPIL) circuit. The BPIL circuit scrambles the 1.544 Mb/s bit stream and feeds it to the AYB1B OU using a balanced line driver.

The signal received from the AYB1B OU is converted from a balanced to an unbalanced logic level signal and passed to the BPIL circuit where clock is recovered. The 1.544 Mb/s bit stream is descrambled by the BPIL circuit, demultiplexed by the transceiver, checked for faults, and passed to the BPIL circuit for buffering and output to the backplane bus.

Per-channel trunk processing is performed in the upstream (toward switch or COT) direction.

FAIL (Red LED): When lighted, indicates that a failure has been sectionalized to the AUA406.

CLF (Yellow LED): When lighted, indicates that a carrier line failure has been detected on the fiber connecting the RT and MSDT.

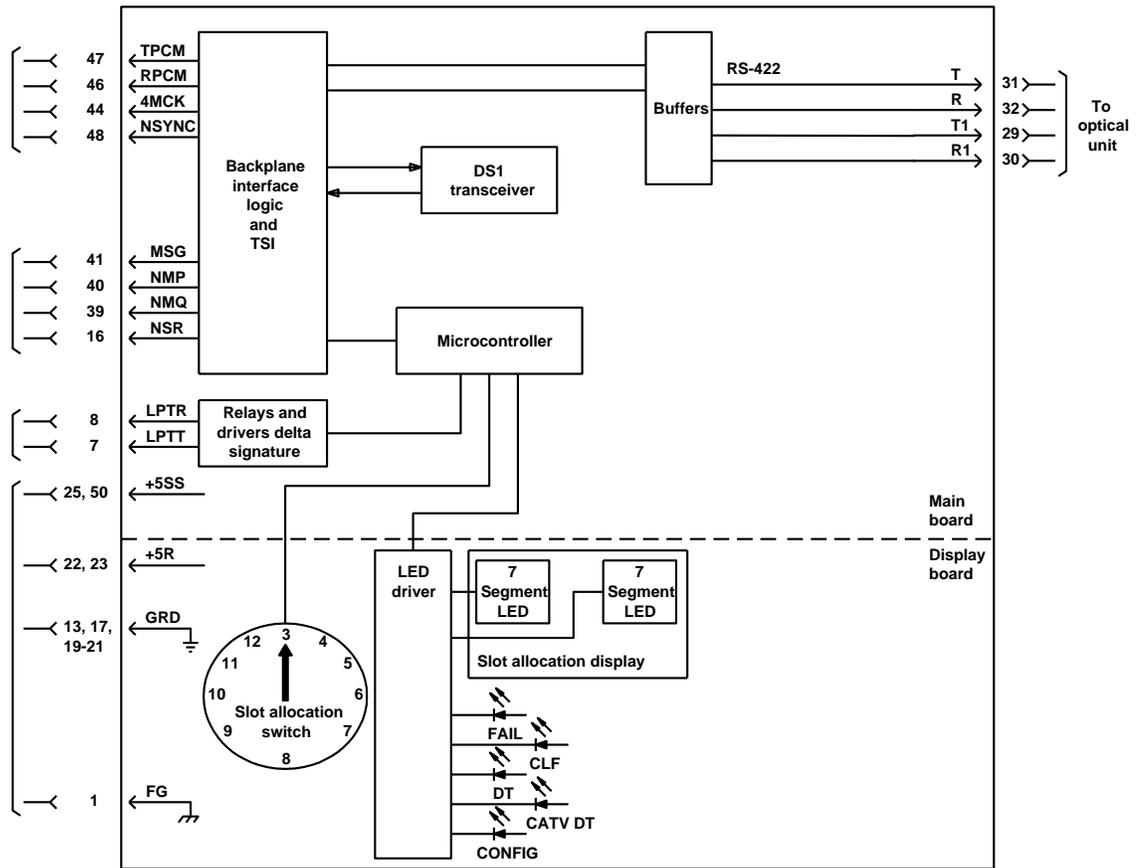
DT (Yellow LED): When lighted, indicates a noncable television (CATV) related event at the MSDT.

CATV DT (Yellow LED): When lighted, indicates a CATV related event at the MSDT.

CONFIG (Yellow LED): When lighted, indicates a problem with an MSDT CU and/or AUA406 Server configuration.

SLOT ALLOCATION (Faceplate-mounted switch and 7-segment LED display): The switch is a 10-position switch used to select the number of physical CU slots accessed by the AUA406 Server. The number of accessed physical CU slots may range from the three slots covered by the faceplate of the AUA406 Server all the way to the 12 physical CU slots in a digroup (a group of 12 physical slots served by the same CO/RT DS1 signal). Because each physical CU slot corresponds to two DS0 time slots, the bandwidth accessed by the AUA406 Server ranges from 6 to 24 DS0 time slots. The 7-segment LED display indicates the position setting of the SLOT ALLOCATION switch. The LED display also indicates the presence of certain bank-level conditions (such as CO-to-RT trunk processing) by a flashing number.

MJ (Board-mounted switch): This switch changes the alarm severity for a subset of failures. When the switch is in the MJ=ANY position, a failure causes a major alarm to be transmitted. If the switch is set to the MJ=12 position, the AUA406 Server must have 12 slots allocated for a failure to cause a major alarm to be transmitted. Otherwise, a failure causes a minor alarm to be transmitted.



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Figure 1. AUA406 Server Block Diagram

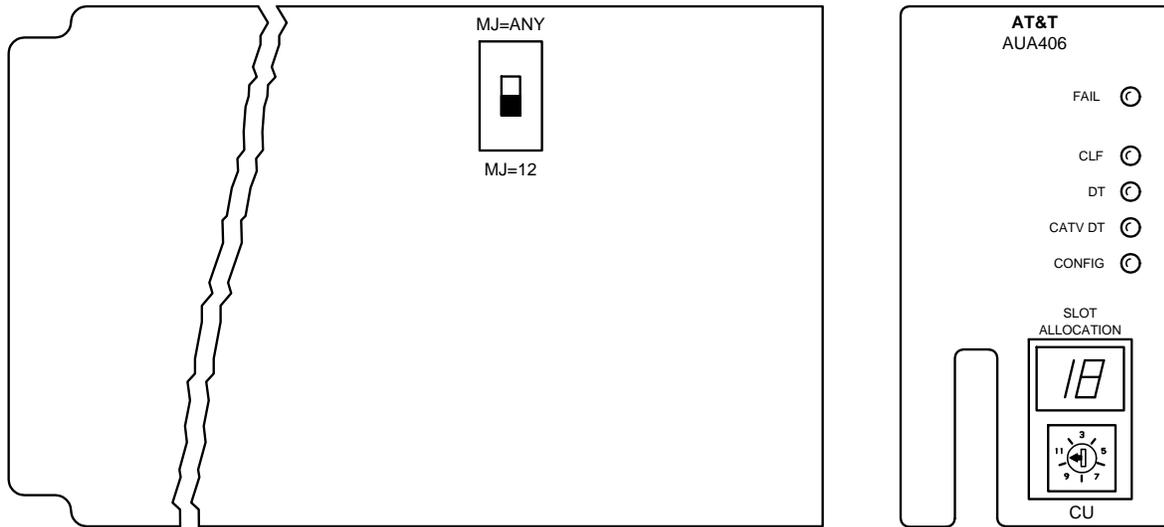


Figure 2. AUA406 Server Faceplate

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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