SLC®-2000 MSDT

AYB5 Optical Unit — 5SCFE006AA

This data sheet describes the AYB5 optical unit (OU) (COMCODE 107215287) and is intended for the end-user of the unit. The AYB5 OU is designed to be used in *SLC* Carrier Systems featuring Fiber in the Loop (FITL). It is used at the remote terminal (RT) in the high density optics shelf (HDOS). The OU provides electrical-to-optical and optical-to-electrical signal conversions.

The AYB5 OU is an extended range optical unit. When this unit operates against the BYB5, the outside plant loss budget is 13.3 dB instead of the 9.8 dB with the AYB1B. This gives this unit approximately a 21-mile range between the host digital terminal (HDT) and the MSDT.

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

The AYB5 OU receives electrical 1.544 Mb/s signals from the MSDT Server. It converts the electrical 1.544 Mb/s signal to an optical 1.544 Mb/s signal using a laser diode and transmits it over one single-mode fiber at 1310 nm to the OU at the MSDT. Upon reception of the optical 1.544 Mb/s signal from the MSDT, the AYB5 OU converts it to an electrical 1.544 Mb/s signal using a positive-intrinsic-negative (PIN) diode detector and feeds it to the MSDT Server. Transmission in the opposite direction is accomplished in the same manner with both directions of transmission being carried over the same fiber.

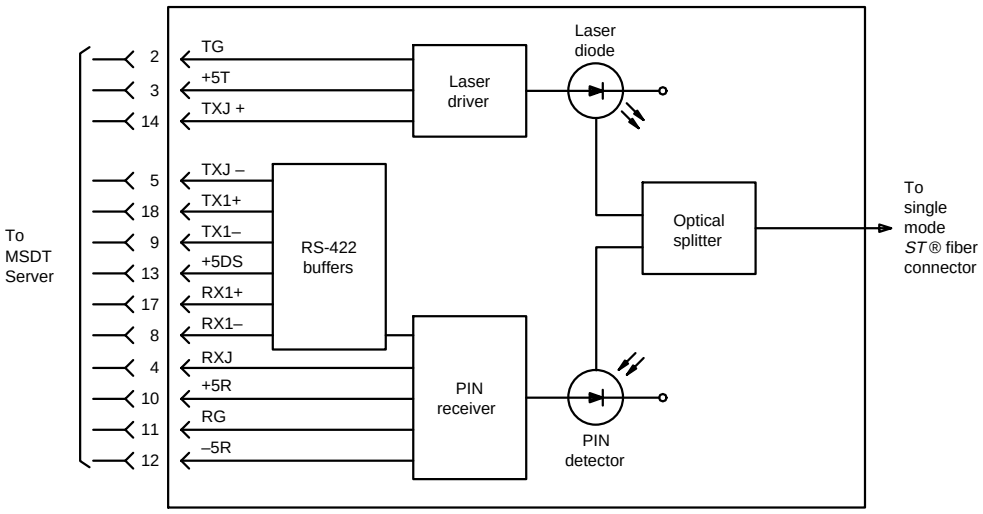

Figure 1. AYB5 OU Block Diagram

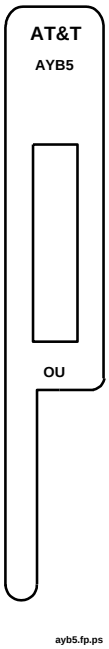

Figure 2. AYB5 OU Faceplate

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**.

Additional copies of this document (AT&T 363-005-296) are available from the Customer Information Center — call 1-800-432-6600.

Send comments about this document to:

AT&T Network Systems Customer Education and Training
Documentation Services
2400 Reynolda Road
Winston-Salem, NC 27106-4606