



## **SLC<sup>®</sup> Series 5 Carrier System**

### **BYB1B Optical Unit — 5SCT300**

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This data sheet describes the BYB1B optical unit (OU) (COMCODE 106446727) and is intended for the end-user of the unit. The BYB1B OU provides electrical-to-optical and optical-to-electrical signal conversions at the end of the fiber optic loop when used in a *SLC<sup>®</sup>-2000* multi-services distant terminal (MSDT) of a *SLC* Carrier System featuring Fiber-In-The-Loop (FITL).

This data sheet is reissued to make minor editorial changes.

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

The BYB1B OU receives electrical 1.544 Mb/s signals from the MSDT channel units (CUs). It converts the electrical 1.544 Mb/s signal to an optical 1.544 Mb/s signal using a single-mode laser diode and transmits it over one single-mode fiber, using simultaneous bidirectional transmission at 1310 nm, to the optical unit at the remote terminal (RT). Upon reception of the optical 1.544 Mb/s signal from the RT, the BYB1B OU converts it to an electrical 1.544 Mb/s signal using a positive-intrinsic-negative (PIN) diode detector and feeds it to the MSDTs backplane interface unit (BIU). Transmission in the opposite direction is accomplished in the same manner with both directions of transmission being carried over the same fiber.

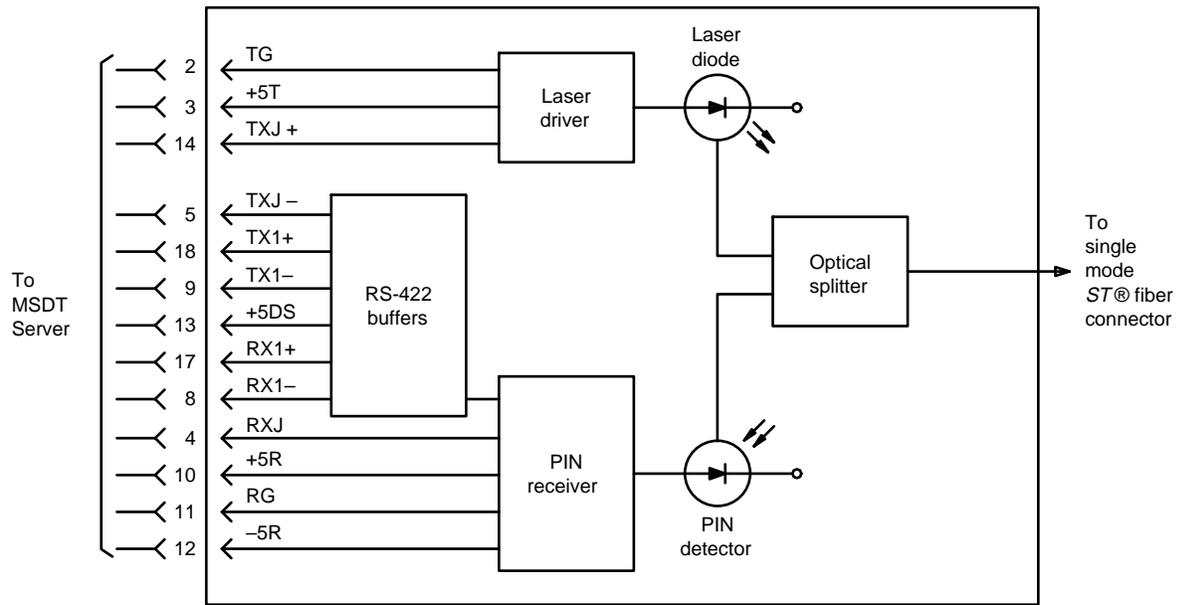
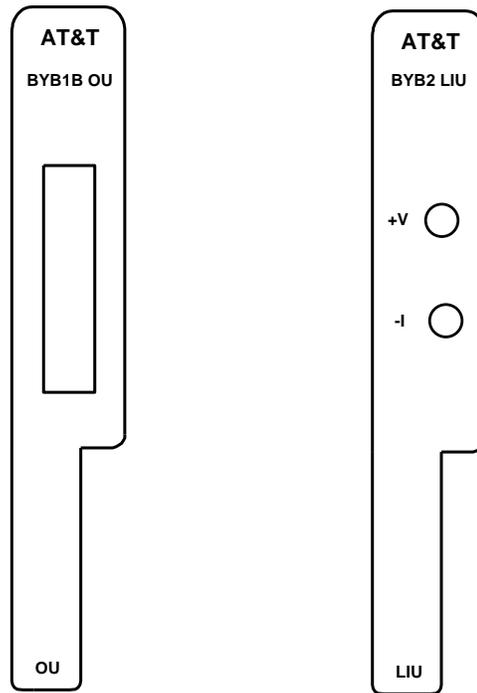


Figure 1. BYB1B OU Block Diagram



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**Figure 2. BYB1B 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 363-005-271) are available from the Customer Information Center — call 1-800-432-6600.

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Attention: Publishing Services Department  
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