



Integrated Photonic Technology (IPITEK®) DS-3 converter modules are used in conjunction with IPITEK IMTRAN® CQ Series transmission systems to transport T3/E3 data communications over fiber. This product takes advantage of the increasingly popular T3/E3 format with applications ranging from T3/E3 broadcast video and MPEG compressed video to small telephone systems.

Each module set transports two digital channels of T3/E3. A set is comprised of a transmit module and a receive module. A DS-3 card set will accept and output T3/E3 alternate mark inversion (AMI) signals with B3ZS line coding formats. The transmit module accepts either one or two T3/E3 signals and converts them to an appropriate format for transmission as a lightwave signal. At the other end of the fiber, the receive module changes the data back into a T3/E3 signal that the user's equipment can process.

FEATURES

- 45 Mb/s Transfer Speed
- Dual Transmit, Dual Receive
- Modular Design
- Status Monitoring

APPLICATIONS

- Broadcast Link
- Compressed Video Transmission
- Distance Learning
- Telephone Transmission
- Video Services Networks

Bidirectional T3/E3 data transport over fiber may be facilitated with two module sets. This can be accomplished with either two fibers or one fiber and a wavelength division multiplexer (WDM).

Local status monitoring is easily accomplished with front panel LEDs. These LEDs are illuminated green when there is a signal present and red when there is no signal present. The receive module LEDs may also be red if the CQ demultiplexer is not framing correctly. The modules transmit an all ones pattern during alarm conditions, allowing the user to remotely monitor system conditions.

Utilizing IMTRAN equipment, combinations of uncompressed video and audio, compressed video, telephony and various data communications formats, such as T1/E1, T3/E3, RS-232, RS-449, and ethernet, can be transported over just one fiber.

These modules are compatible with any IMTRAN CQ Series digital transmission chassis.