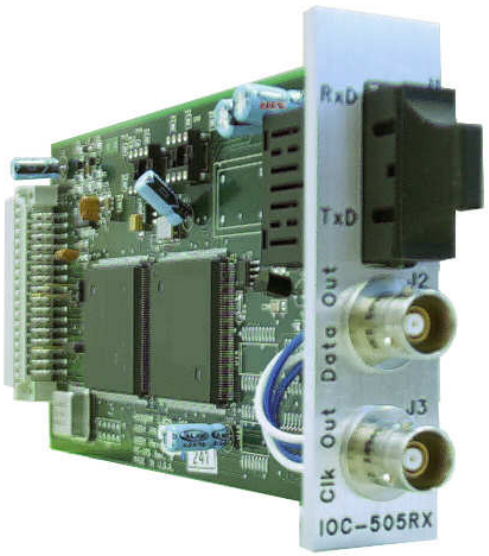
APOGEE LABS

MODEL IOC505

FIBEROPTIC / RS-422 TRANSMIT / RECEIVE MODULE



1. FEATURES

- **RS-422 Differential Data and Clock Input/Output**
- **Single Fiber Optic Input/Output**
- **1 Fiber to Move both Data and Clock Signals**
- **DC Isolated Link**
- **Inputs Illuminate Front Panel LEDs**
- **2 kbps to 35 Mbps Data Rate**

2. OVERVIEW

The IOC505 Pluggable Interface Module (PIM) provides the ability to transfer electrical signals over optical cables. These modules are used to provide a DC isolated data link, provide a medium length (up to a few miles) data path and reduce radiated emissions. The transmitter accepts an RS-422 serial synchronous data stream (data and clock) and converts it to an optical signal for transmission over either single mode fiber optic cable. The packetized data is received by the receiver module, which converts the optical signal back to its original RS-422 data and clock form. The IOC505 uses industry standard TRIAX and SC connectors, operates from 2 kbps to 35 Mbps and requires one of the 14 available slots in the 2073 chassis.

210 South 3rd Street, North Wales, PA 19454
Tel: 215.699.2060 Fax: 215.699.2061
E-mail: sales@apogeelabs.com

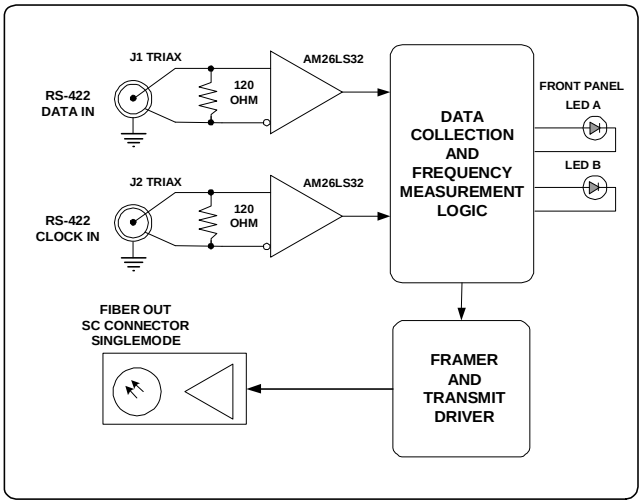


Figure 1 Model IOC505TX Block Diagram

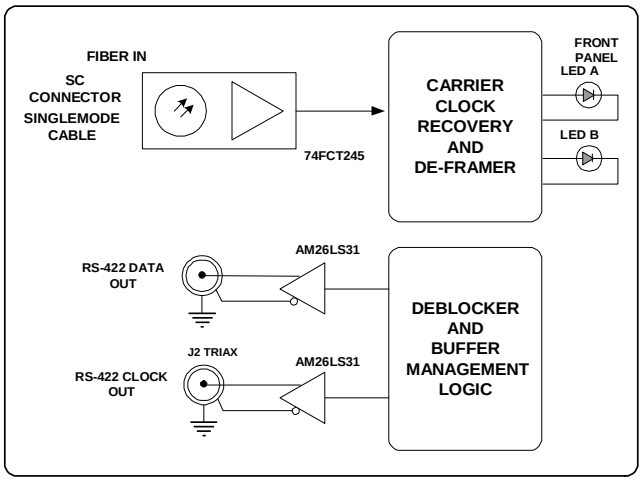


Figure 2: Model IOC505RX Block Diagram

3. SPECIFICATIONS

GENERAL

TRIAX connectors

SC Fiber connectors

1 Slot Module (3” x 6” x .9”)

Singlemode

Model 2073 Pluggable Interface Module

ELECTRICAL SIGNAL INPUT

RS-422

120 ohm line-to-line termination

ELECTRICAL SIGNAL OUTPUT

RS-422

High current

OPTICAL SIGNAL I/O

SC type Connectors

Singlemode

1300 nm Wave length