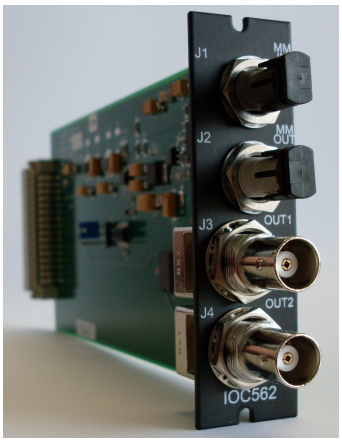
APOGEE LABS

IOC562
MULTI-MODE FIBER TO TTL CONVERTER



FEATURES

- Inputs:
  - ◊ ST multi-mode fiber
  - ◊ 820 nm wavelength
- Outputs:
  - ◊ ST multi-mode fiber
  - ◊ 820 nm wavelength
  - ◊ TTL single ended on BNC connector
- 200 Kbps to 30 Mbps operation
- Inputs illuminate LED's on front panel of chassis

OVERVIEW

The IOC562 Pluggable Interface Module (PIM) is an optical interface module capable of receiving a multi-mode light modulated signal and converting it to TTL protocols. A multi-mode optical output is also provided which provides a repeat operation for the input optical signal. The IOC562 uses one ST multi-mode fiber optic input connector, one ST multi-mode fiber optic output connector, and two BNC outputs for TTL. The optical input is also used to drive the daisy chain bus of the AL2073 chassis enabling the user to create multiple copies of the input data signals. The optical signal is converted to TTL and driven to the daisy chain buses.

JP3 is used to invert the input optical signal after being converted to TTL. The B LED on the front panel of the chassis will illuminate when the IOC562 is installed and receiving power. The A LED on the front panel of the chassis indicates input data after optical to electrical conversion. The IOC562 requires one slot of the fourteen available slots in the Models AL2073 and AL2873 chassis'. This card can also be used in the AL2073-S single unit chassis.

JUMPER SELECTORS

Jumper	Assignment
JP1	Short 1-2: TTL output invert Short 2-3: TTL output normal

SPECIFICATIONS

GENERAL

Model 2073 Pluggable Interface Module

One independent channel

Multi-mode ST fiber

Single slot module (3" x 6" x 0.9")

200 Kbps to 30 Mbps operation

INPUT

J1 - Multi-mode ST fiber (820 nm wavelength)

OUTPUT

J2 - Multi-mode ST fiber (820 nm wavelength)

J3 - BNC for TTL

J4 - BNC for TTL

APPLICATION INFORMATION

The IOC562 is used to distribute data across long lengths (several miles) of fiber cable. It utilizes industry standards for both the electrical and optical signal interfaces.

This module can also be plugged into Apogee Models:

2873: *Data Acquisition Mux/Demux*

2073-S single module chassis