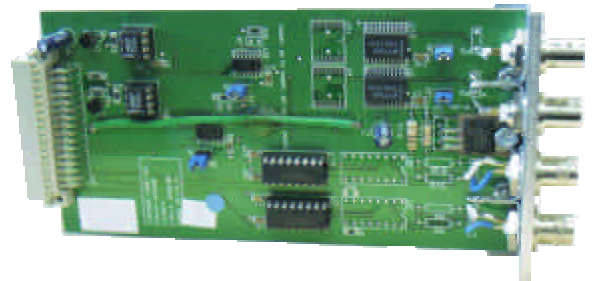


MODEL 2073 INTERFACER PRODUCT LINE

November 14, 2003

**IOC007
TTL TO ECL CONVERTER
MODULE**

Rear view



Side view

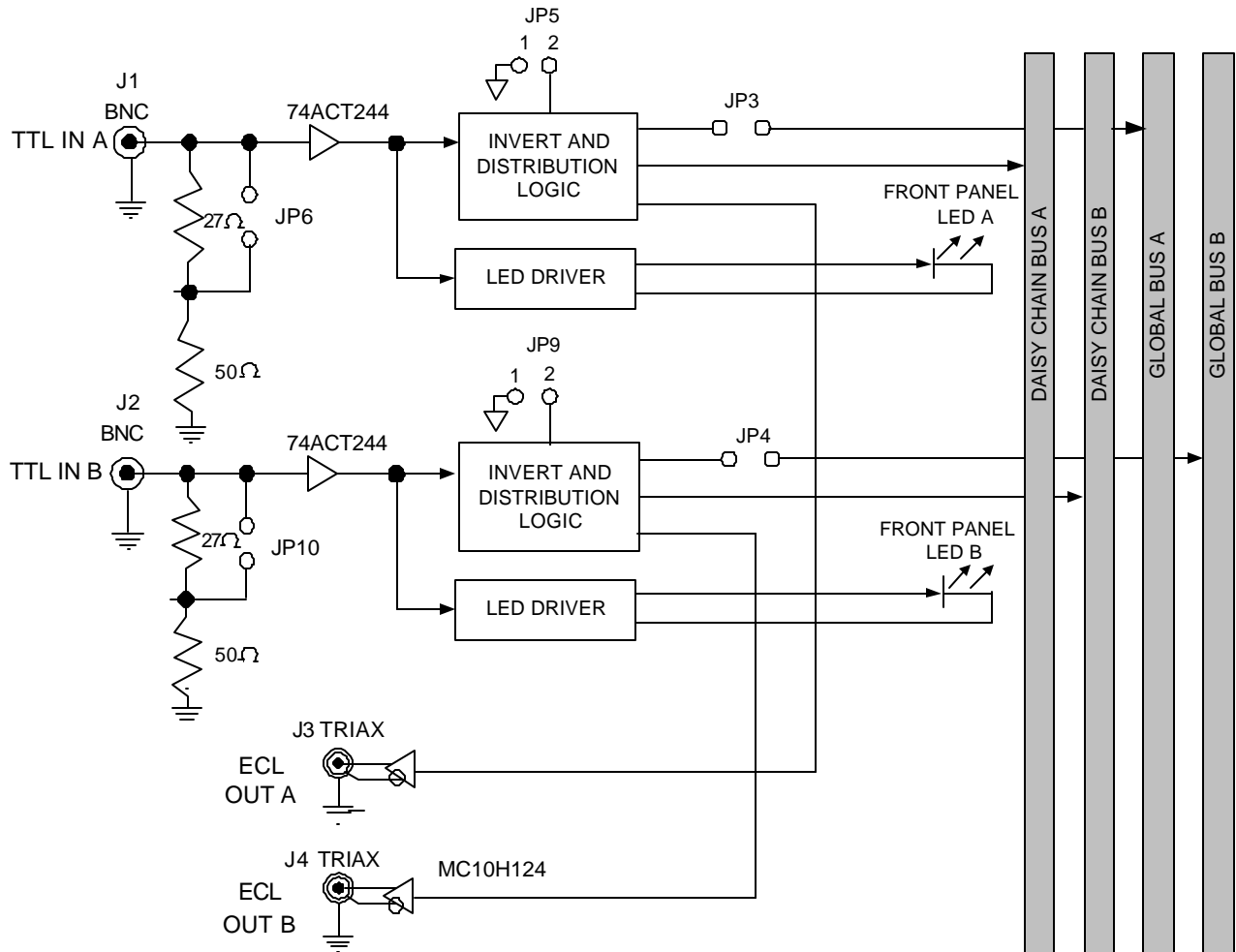
TTL BNC (2) Input, ECL Triax (2) Output**FEATURES**

- Two Independent TTL level inputs
- Two Independent Differential NECL level outputs
- Inputs illuminate front panel LEDs
- Selectable input termination (50 ohm/75 ohm)
- Drives Daisy Chain Bus and Global Bus
- High Current outputs
- Independent output polarity selection

OVERVIEW

The IOC007 Pluggable Interface Module (PIM) accepts two TTL Level input signals and produces two Differential NECL level output signals. Both output polarities may be inverted independently. The IOC007 uses two BNC input connectors; two Triax output connectors and operates up to 35 Mbps. It can also drive the daisy chain bus and the global bus in the Model 2073 Chassis, enabling the user to create multiple copies of the output signals. The IOC007 occupies one slot of the 14 available slots in the Model 2073 chassis.

BLOCK DIAGRAM



JUMPERS	FUNCTION
JP5	Short pins 1-2 to invert TTL IN A Open pins 1-2 for non-inverted TTL IN A
JP9	Short pins 1-2 to invert TTL IN B Open pins 1-2 for non-inverted TTL IN B
JP3	Short pins 1-2 to drive Global Bus A, open to disable
JP4	Short pins 1-2 to drive Global Bus B, open to disable
JP6	Short pins 1-2 for 50 Ω TTL IN A input termination, Open for 75 Ω
JP10	Short pins 1-2 for 50 Ω TTL IN B input termination, Open for 75 Ω

SPECIFICATIONS

GENERAL

2 Independent channels
Single Slot Module (3" x 6" x 0.9")
Model 2073 Pluggable Interface Module

INPUT

TTL Level Inputs
BNC Connectors
50/75-ohm selectable termination

OUTPUT

NECL Differential Level Outputs
Triax connectors (Trompeter Part No. BJ770)

APPLICATION INFORMATION

The IOC007 can be used to convert any 2 TTL level signals to NECL level signals. This helps join equipment with unlike interfaces by properly receiving and driving the signals.

The IOC007 can also be used in a distribution application where the daisy chain bus or global bus is used to distribute multiple copies of one or both input signals.

This module can also be plugged into Apogee Models:
2097 and 2098: *Data Acquisition Mux/Demux*
6801: *5 Channel BERT Operation*
6804: *Multi Channel Clock Recovery Unit*