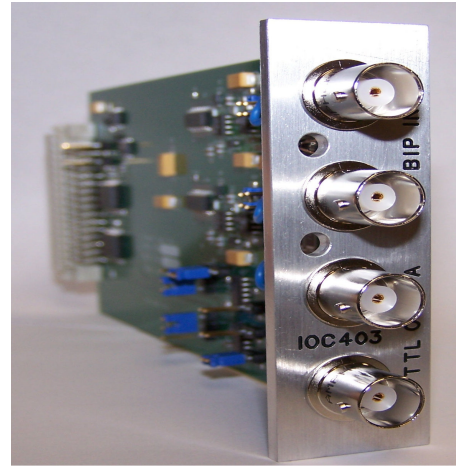


MODEL 2073 INTERFACER PRODUCT LINE

**IOC403
BIPOLAR
TO
TTL
CONVERTER MODULE**

**FEATURES**

- Two Independent Bipolar Level Inputs
- Two Independent TTL Level Outputs
- Inputs Illuminate Front Panel LEDs
- Selectable Input Termination (75 Ohm/50 Ohm)
- Drives Daisy Chain Bus and Global Bus
- High Current Outputs
- Independent Output Polarity Selection

OVERVIEW

The IOC403 Pluggable Interface Module (PIM) accepts two Bipolar Level input signals and produces two TTL level output signals. Both output polarities may be inverted independently. The IOC403 uses two BNC input connectors, two BNC 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 IOC403 requires one slot of the 14 available slots in the Model 2073 chassis.

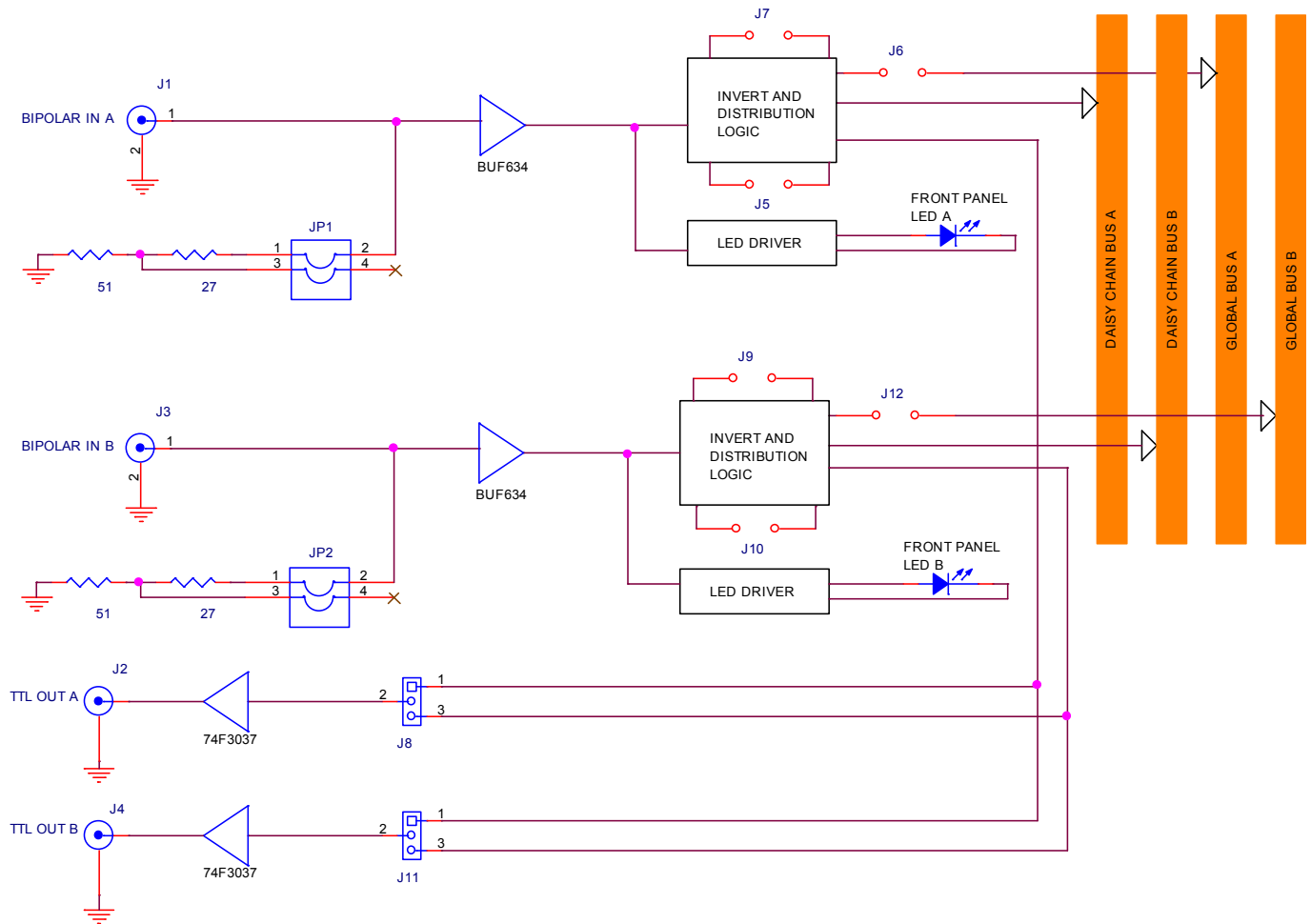


Figure 1: Model IOC403 Block Diagram

SPECIFICATIONS

GENERAL

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

INPUT

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

OUTPUT

TTL Level Outputs
 BNC connectors

APPLICATION INFORMATION

The IOC403 can be used to convert any 2 Bipolar level signals to TTL level signals. This helps join equipment with unlike interfaces by properly receiving and driving the signals.

The IOC403 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:

- 2907 and 2908: Data Acquisition Mux/Demux
- 6801: 5 Channel BERT Operation
- 6804: Multi Channel Clock Recovery Unit

JUMPERS	FUNCTION
JP1	Short pins 1-2 for 75 Ω Bipolar IN A input termination Short pins 3-4 for 50 Ω Bipolar IN A input termination
JP2	Short pins 1-2 for 75 Ω Bipolar IN B input termination Short pins 3-4 for 50 Ω Bipolar IN B input termination
J5	Short pins 1-2 to invert Global Bus A
J6	Short pins 1-2 to drive Global Bus A, open to disable
J7	Short pins 1-2 to invert Bipolar IN A
J8	Short pins 1-2 to send Bipolar IN A to TTL OUT A Short pins 2-3 to send Bipolar IN B to TTL OUT A
J9	Short pins 1-2 to invert Bipolar IN B
J10	Short pins 1-2 to invert Global Bus B
J11	Short pins 1-2 to send Bipolar IN A to TTL OUT B Short pins 2-3 to send Bipolar IN B to TTL OUT B
J12	Short pins 1-2 to drive Global Bus B, open to disable