

MODEL 2073 INTERFACER PRODUCT LINE

IOC404
RS-530
TO
TTL
INTERFACE
MODULE**FEATURES**

- Two Independent RS-530 level Inputs
- Two Independent TTL level Inputs
- Two Independent RS-530 level Outputs
- Two Independent TTL level Outputs
- Selectable RS-530 Input Termination (120 Ohm/75 Ohm)
- Selectable TTL Input Termination (75 Ohm/50 Ohm)
- Operates up to 15Mbps
- Independent Output Polarity Selection
- Drives Daisy Chain Bus and Global Bus
- Inputs Illuminate Front Panel LEDs
- High Current Outputs

OVERVIEW

The IOC404 Pluggable Interface Module accepts RS-530 level data and clock pairs and translates them to TTL level data and clock. It also accepts TTL level data and clock and translates them to RS-530 level data and clock pairs. This is done as a full duplex operation. The IOC404 uses a DB25 connector for the RS-530 input and output signals, and BNC connectors are used for the TTL input and output signals. The IOC404 operates up to 15 Mbps. Polarities on both the RS-530 and TTL outputs can be inverted independently. 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 front panel A LED will illuminate if there is an active RS-530 input. The front panel B LED will illuminate if there is an active TTL input. The IOC404 requires two slots of the 14 available slots in the Model 2073 chassis.

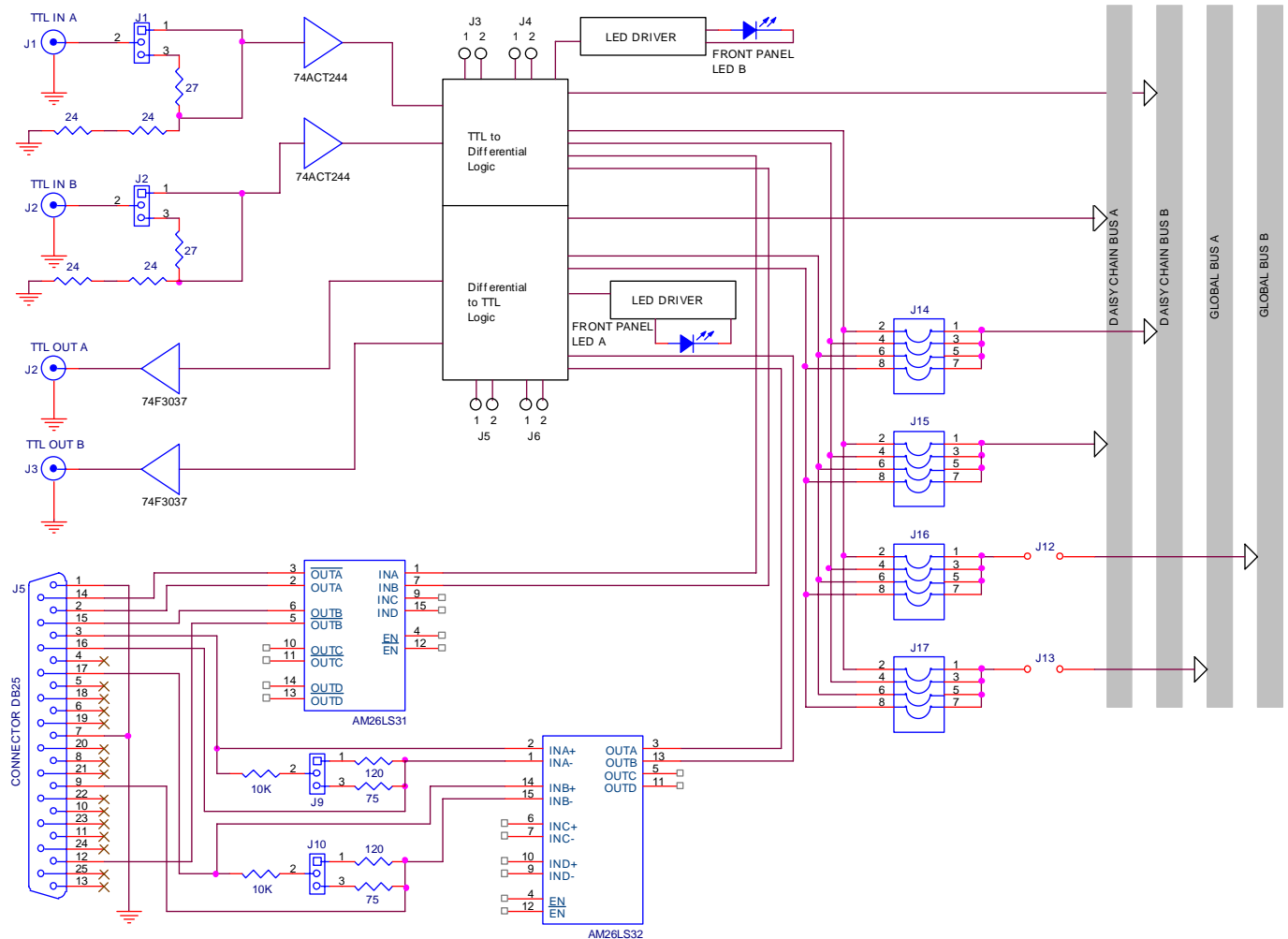


Figure 1: Model IOC404 Block Diagram

SPECIFICATIONS

GENERAL

2 Independent channels
Double Slot Module (3" x 6" x 1.8")
Model 2073 Pluggable Interface Module

INPUT

TTL Level Input
BNC Connector
50/75 ohm selectable termination

RS-530 Level Input
DB25 Connector
75/120 ohm selectable termination

OUTPUT

TTL Level Output
BNC Connector

RS-530 Level Output
DB25 Connector

APPLICATION INFORMATION

The IOC404 accepts RS-530 level data and clock pairs and translates them to TTL level data and clock. It also accepts TTL level data and clock and translates them to RS-530 level data and clock pairs.

The IOC404 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

JUMPER	FUNCTION
J1	(1-2): Terminate TTL IN A to 50 Ohm (2-3): Terminate TTL IN A to 75 Ohm
J2	(1-2): Terminate TTL IN B to 50 Ohm (2-3): Terminate TTL IN B to 75 Ohm
J3	Bridge to invert TTL IN A
J4	Bridge to invert TTL IN B
J5	Bridge to invert RS-530 IN A
J6	Bridge to invert RS-530 IN B
J9	(1-2): Terminate Line to Line RS-530 IN A to 120 Ohm (2-3): Terminate Line to Line RS-530 IN A to 75 Ohm
J10	(1-2): Terminate Line to Line RS-530 IN B to 120 Ohm (2-3): Terminate Line to Line RS-530 IN B to 75 Ohm
J12	Bridge to enable Global Bus B
J13	Bridge to enable Global Bus A
J14	(1-2): Sends TTL IN A to Daisy Chain Bus B (3-4): Sends TTL IN B to Daisy Chain Bus B (5-6): Sends RS-530 IN A to Daisy Chain Bus B (7-8): Sends RS-530 IN B to Daisy Chain Bus B
J15	(1-2): Sends TTL IN A to Daisy Chain Bus A (3-4): Sends TTL IN B to Daisy Chain Bus A (5-6): Sends RS-530 IN A to Daisy Chain Bus A (7-8): Sends RS-530 IN B to Daisy Chain Bus A
J16	(1-2): Sends TTL IN A to Global Bus B (3-4): Sends TTL IN B to Global Bus B (5-6): Sends RS-530 IN A to Global Bus B (7-8): Sends RS-530 IN B to Global Bus B
J17	(1-2): Sends TTL IN A to Global Bus A (3-4): Sends TTL IN B to Global Bus A (5-6): Sends RS-530 IN A to Global Bus A (7-8): Sends RS-530 IN B to Global Bus A