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TDT iL24 Digital Logic Interface

Introduction

The iL24 Digital Logic Interface is designed to communicate with external behavioral components using 24 bits of 5 V or 3.3 V TTL logic signals. It features 12 input bits and 12 output bits, with each direction having 4 addressable bits and 1 addressable byte.

Specifications

Feature	Description
Input Bits	12
Output Bits	12
Voltage Levels	5 V or 3.3 V TTL
Maximum Current	6 mA per bit

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iL24 Digital Logic Interface

The iL24 module can communicate with external behavioral components using 24 bits of 5 V or 3.3 V TTL logic signals. There are 12 input bits and 12 output bits. Each direction has 4 addressable bits and 1 addressable byte.

- There are four bit-wise inputs and four bit-wise outputs available with BNC connectors and status light for each
- The DB25 connector has access to all 24 addressable bits

- Two rows of 8 status LEDs on the front panel show the state of the word input and output bits
- The front panel switch toggles between +3.3 V and +5 V logic for all 24 bits of I/O on the iL24
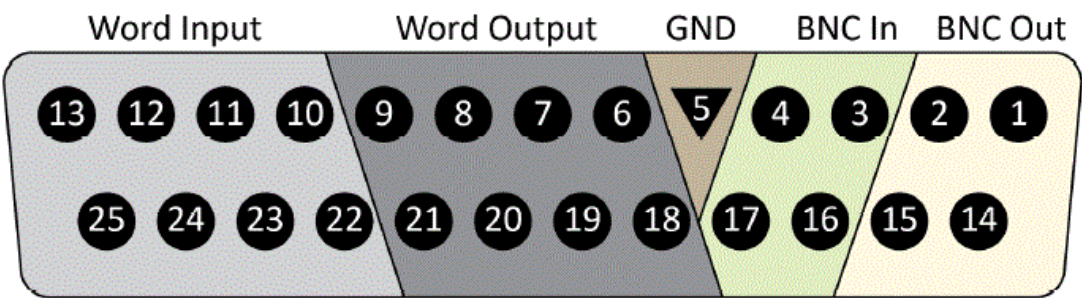- Each bit can source up to 6 mA maximum current

For information on software control of the iL24, see the Synapse Manual.

iL24m Manifold

The iL24 comes with a manifold of BNC connectors for easier access to the Word Input and Word Output bits.
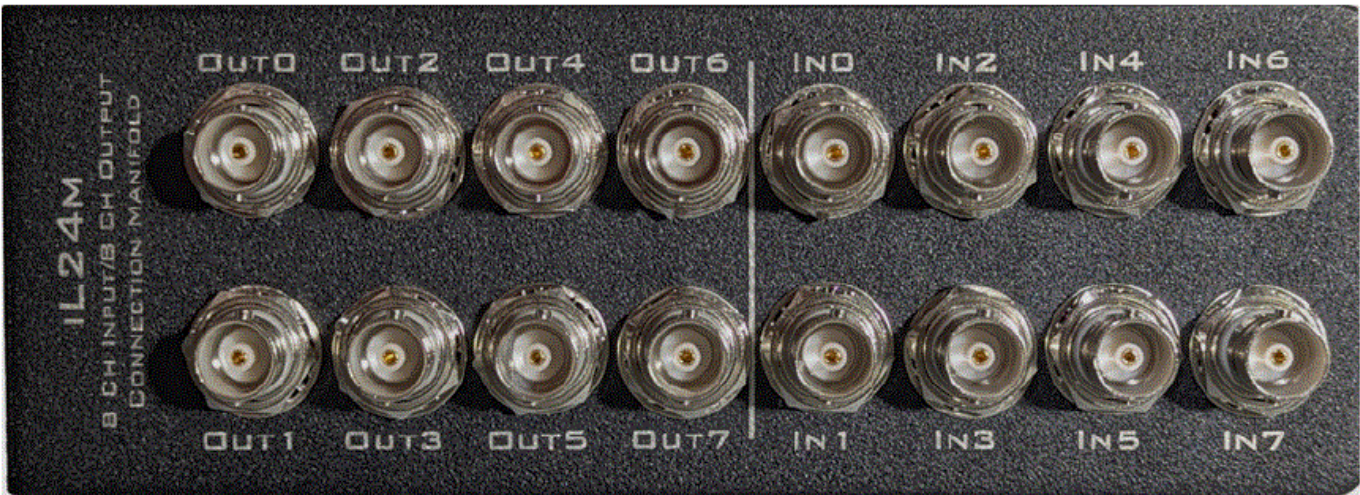
DB25 Pinout

iL24 pinout, looking into the connector

Parts

Pin	Name	Description		Pin	Name	Description

1	BO1	BNC Output	14	BO2	BNC Output
2	BO3		15	BO4	
3	BI1	BNC Input	16	BI2	BNC Input
4	BI3		17	BI4	
5	GND	Ground	18	DO0	Word Output
6	DO1	Word Output	19	DO2	
7	DO3		20	DO4	
8	DO5		21	DO6	
9	DO7		22	DI0	Word Input
10	DI1	Word Input	23	DI2	
11	DI3		24	DI4	
12	DI5		25	DI6	
13	DI7				

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FAQ

- **What is the purpose of the iL24 Digital Logic Interface?**
  - `The iL24 is designed to communicate with external behavioral components using

TTL logic signals.

- **How many input and output bits does the iL24 support?**
    - The iL24 supports 12 input bits and 12 output bits.
- **Where can I find the latest documentation?**
    - The latest documentation is available at TDT's website.
- **How can I control the iL24 via software?**
    - For software control, refer to the Synapse Manual.

Documents / Resources

iL24 Digital Logic Interface	TDT iL24 Digital Logic Interface [pdf] Instruction Manual iL24 Digital Logic Interface, iL24, Digital Logic Interface, Logic Interface, Interface

References

- User Manual

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