Vol. S4-2-2

HIGH SPEED LINK

Real-Time, High-Speed Control, and Remote Motion Control Realization

- Selectable Baud Rate: 3/6/12 Mbps
- Transmission Length up to 200 m at 6Mbps
- Fast and Real-Time Response
- Multiple Module Choice: Digital I/O, Analog I/O, and Remote Motion
- Save Wiring - Using RJ45 Cable for Wiring

PCI-7851/52
High Speed Link Master
Controller Interface Cards

New

4-Axis Control

High Speed Link

DI16DO16

DI32

DO32

New

AI16AO12

New

DI8/DO8/DI4DO4
Compact Size
5.5 x 5 x 1.8 cm

ADLINK TECHNOLOGY INC.

Advance Technologies; Automate the World

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HSL-4XMO-CG-N

4 Axes Motion Control Module

163.5 mm (W) x 74.9 mm (D) x 52.7 mm (H)

General Features

- HSL Communication Protocol
- Selectable Baud Rate: 3/6/12 Mbps
- Support Half / Full Duplex Mode
- On-Board DSP
- 4 Axes Pulse Train Output Channels
- Up to 63 Axes in One HSL Network
- Motion Point Table Management
- Motion Script Download (G-Code-Like Language)

Motion Control Features

- Pulse Train Frequency up to 6.55 MHz
- Point-to-Point Motion
- Linear/Circular Interpolation
- On-the-Fly Speed / Position Change
- Continuous Contouring Motion
- 13 Home Return Modes
- 4 Axes Position Compare & Trigger Output Channels
- 4 Axes High-Speed Position Counter Latches
- Dedicated Motion I/O: EL, ORG, INP, RDY, SVON, ERC and ALM
- Hardware Emergency Stop

Brief Specifications	
Command Response Time	120 us for two modules at 12Mbps transmission rate
Pulse Output Type	Line Drive / Open Collector Output
Pulse Output Frequency	6.55 MHz (Max)
Encoder Input Voltage	Logic: High at 3~5V; Low at 0~2.4V
Encoder Input Frequency	5 MHz (Max)
General-Purposed Input Type	NPN Sinking / PNP Sourcing Type Selectable
General-Purposed Input Voltage	ON: 6.5~24 Volt; OFF: 0~3 Volt
General-Purposed Input Impedance	4.7 kΩ
General-Purposed Output Type	NPN Sinking Type for -N Module; PNP Sourcing
	Type for -P Module
General-Purposed Output Current	± 90 mA (Max)

HSL-DI8-L-N & HSL-DI8-L-P

8-CH Discrete Input Low-Profile Module

Features

- HSL Communication Protocol
- Selectable Baud Rate: 3/6/12 Mbps
- Support Half / Full Duplex Mode
- Low Profile and Compact Size Design
- Save Space & Distributed Allocation
- NPN Sinking Type for-N Module
- PNP Sourcing Type for-P Module

55 mm (W) x 50 mm (D) x 18 mm (H)

Brief Specifications-for -N Module	
Input Current	10 mA (Max)
Input Impedance	4.7 kΩ
Photo Couple Isolation Voltage	2500 Vrms
Operation Voltage	ON: 9.6 V_{DC} (Max); OFF: 19.0 V_{DC} (Min)
Response Time	ON: 5μs (Typical); OFF: 10μs (Typical)

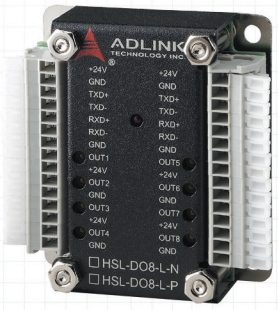
Brief Specifications-for -P Module	
Input Current	10 mA (Max)
Input Impedance	4.7 kΩ
Photo Couple Isolation Voltage	2500 Vrms
Operation Voltage	ON: 14.4 V_{DC} (Max); OFF: 5.0 V_{DC} (Min)
Operation Voltage	ON: 5μs (Typical); OFF: 10μs (Typical)

HSL-DO8-L-N & HSL-DO8-L-P

8-CH Discrete Output Low-Profile Module

Features

- HSL Communication Protocol
- Selectable Baud Rate: 3/6/12 Mbps
- Support Half / Full Duplex Mode
- Low Profile and Compact Size Design
- Save Space & Distributed Allocation
- NPN Sinking Type for -N Module
- PNP Sourcing Type for -P Module



55 mm (W) x 50 mm (D) x 18 mm (H)

Brief Specifications-for -N Module	
Output Current	500 mA for Single Channel; 60 mA for 8 Channels
Photo Couple Isolation Voltage	2500 Vrms
Response Time	ON: 1.2μs (Typical); OFF: 180μs (Typical)

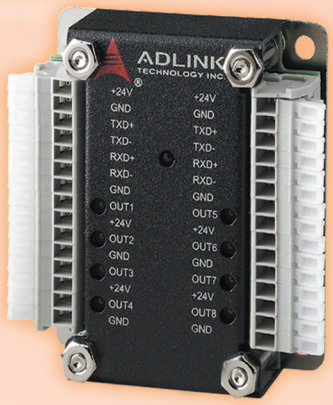
Brief Specifications-for -P Module	
Output Current	500 mA for Single Channel; 60 mA for 8 Channels
Photo Couple Isolation Voltage	2500 Vrms
Response Time	ON: 1.2μs (Typical); OFF: 180μs (Typical)

HSL-DI4DO4-L-X X

4-CH Discrete Output /
4-CH Discrete Input Low-Profile Module

Output Type
-N: NPN Sinking
-P: PNP Sourcing

Input Type
-N: NPN Sinking
-P: PNP Sourcing



55 mm (W) x 50 mm (D) x 18 mm (H)

Features

- HSL Communication Protocol
- Selectable Baud Rate : 3/6/12 Mbps
- Support Half / Full Duplex Mode
- Low Profile and Compact Size Design
- Save Space & Distributed Allocation
- NPN Sinking Type for -N Module
- PNP Sourcing Type for -P Module

Brief Specifications for - N or - P Output	
Output Current	500 mA for Single Channel; 120 mA for 4 Channels
Photo Couple Isolation Voltage	2500 Vrms
Response Time	ON: 1.2µs (Typical); OFF: 180µs (Typical)

Brief Specifications for - N Input	
Input Current	10 mA (Max)
Input Impedance	4.7 kΩ
Photo Couple Isolation Voltage	2500 Vrms
Operation Voltage	ON: 9.6 V_{DC} (Max); OFF: 19.0 V_{DC} (Min)
Response Time	ON: 5µs (Typical); OFF: 10µs (Typical)

Brief Specifications for - P Input	
Input Current	10 mA (Max)
Input Impedance	4.7 kΩ
Photo Couple Isolation Voltage	2500 Vrms
Operation Voltage	ON: 14.4 V_{DC} (Max); OFF: 5.0 V_{DC} (Min)
Response Time	ON: 5µs (Typical); OFF: 10µs (Typical)

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