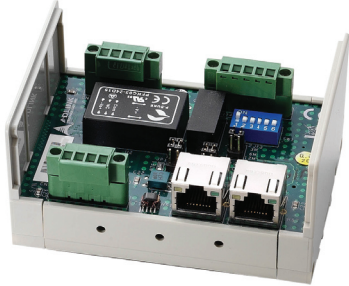


HSL-AO4-U

4-CH Analog Output Module



Features

- 4-CH analog output
- Output voltage range selection $\pm 12\text{ V}$
- 16-bit resolution
- Isolation voltage: 2500 V_{RMS}
- Easy programming by software
- Easy installation and wiring

Specifications

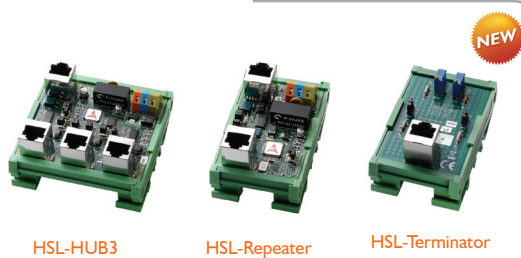
■ Slave ID Consumption	2
■ Transmission Mode	Full/Half duplex
■ Transmission Speed	3/6/12 Mbps selectable, 6 Mbps is default setting
■ Analog Output Channel	4
■ Circuit Type	Single-ended
■ D/A Resolution	16-bit
■ Output Range	$\pm 12\text{ V}$
■ D/A Settling Time	10 μs (max.)
■ D/A Offset Error	0.5 mV (max.)
■ LED Indicator	Power and Link
■ Power Requirement	+24 V _{DC} ($\pm 10\%$)

Software Support

- **Windows® Platform**
Windows® Vista (32-bit)/XP/2000 libraries
- **HSL LinkMaster Utility**
The HSL LinkMaster utility is used to scan and test slave devices.

HSL-HUB3 / HSL-Repeater / HSL-Terminator

High Speed Link Extension Modules



HSL-HUB3

HSL-Repeater

HSL-Terminator

Features

- Linking style: Master to HUB, HUB to HUB, HUB to Slave
- Support T bracing connection and star connection (subsystem concept)
- One input port with 3 output segment ports
- Jumper selectable transmission speeds: 3/6/12 Mbps
- Full and half duplex transmission mode are jumper selectable
- RJ-45 phone jack for easy installation
- 24 VDC input

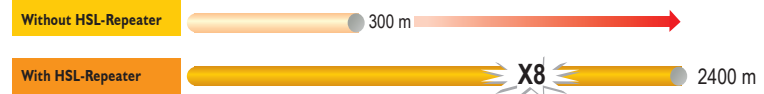
General Introduction

The HSL-HUB3 is an HSL subsystem which can offer one to three port transformation in automation applications. Unlike the traditional daisy chain configurations, the HSL-HUB3 provides more flexible connections (tree configurations) while building up the application.

The HSL-Repeater is the HSL subsystem which can extend the connection distance in automation application, especially in factory automations. One HSL bus can connect up to seven repeater modules and wire lengths up to 2.4 KM at a 3 Mbps transmission rate. In other words, all 2016 points can be monitored within 4 ms via the HSL bus up to 2.4 KM in length to provide fast, time-deterministic, and robust configurations over traditional RS-485 devices.

The HSL-Terminator can be used for stable communication. The HSL-Terminator provides an adjustable resistor to allow the impedance of the wiring of the HSL system or Motionnet system to be adjusted to ensure the quality of the transmission.

The extension possibility of HSL system by using HSL-HUB3/HSL-Repeater



	Without Repeater	Repeater X 1	Repeater X 2	Repeater X 5	Repeater X 7
12 Mbps	100 m	200 m	300 m	600 m	800 m
6 Mbps	200 m	400 m	600 m	1200 m	1600 m
3 Mbps	300 m	600 m	900 m	1800 m	2400 m

- 1 Software & Utilities
- 2 DAQ
- 3 PXI
- 4 Modular Instruments
- 5 GPIB & Bus Expansion
- 6 PAC
- 7 Motion
- 8 Real-time Distributed I/O
- 9 Remote I/O
- 10 Communications
- 11 Vision
- 12 Fanless I/O Platforms
- 13 cPCI & Industrial Computers
- 14 Accessories