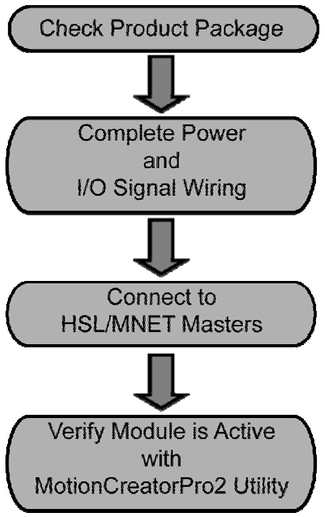
DST-HUB-Motionnet & High Speed Link Extension Module

Features

- Supports both Motionnet (MNET) and HSL buses
- Supports T-bracing connection and star connection (subsystem concept)
- One input port with 2 output segment ports for HSL system
- One input port with 3 output segment ports for Motionnet system
- Switch setting selectable transmission speeds of 3/6/12 Mbps for HSL system
- Switch setting selectable transmission speeds of 5/10/15/20 Mbps for Motionnet (MNET) system
- RJ-45 jack for easy installation

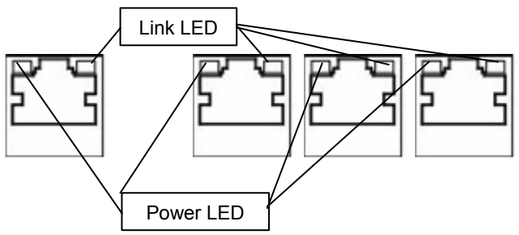
Getting Started



Pin Definitions

MNET M, S1, S2, S3: Communications Connectors

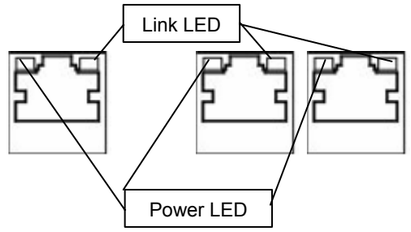
The DST-HUB has two LEDs indicating Motionnet & HSL communication and 24VDC power supply status, as follows.



	Name	I/O	Function
1	N/A	--	N/A
2	N/A	--	N/A
3	N/A	--	N/A
4	RS485-	--	Serial communication data-
5	RS485+	--	Serial communication data+
6	N/A	--	N/A
7	N/A	--	N/A
8	N/A	--	N/A

Pin Definitions (cont'd)

HSL M, S1, S2: Communications Connectors



HSL M Connector:

	Name	I/O	Function
1	N/A	--	N/A
2	N/A	--	N/A
3	TX+	--	RS-422 Transmission Line, Positive
4	RX-	--	RS-422 Receiving Line, Negative
5	RX+	--	RS-422 Receiving Line, Positive
6	TX-	--	RS-422 Transmission Line, Negative
7	N/A	--	N/A
8	N/A	--	N/A

HSLS1, S2 Connector:

	Name	I/O	Function
1	N/A	--	N/A
2	N/A	--	N/A
3	RX+	--	RS-422 Receiving Line, Positive
4	TX-	--	RS-422 Transmission Line, Negative
5	TX+	--	RS-422 Transmission Line, Positive
6	RX-	--	RS-422 Receiving Line, Negative
7	N/A	--	N/A
8	N/A	--	N/A

CN201: Power Connectors

	Name	I/O	Function
1	EN24V	I	External Power Supply Input (+24 V DC±10%)
2	EN24V	I	External Power Supply Input (+24 V DC±10%)
3	EGND	--	External Power Supply Ground
4	EGND	--	External Power Supply Ground
5	FGND	--	Shielding Ground

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Specifications

Transmission Mode	Full/Half duplex
Transmission Speed for HSL system	3/6/12 Mbps selectable, 6 Mbps is default
Transmission Speed for Motionnet system	5/10/15/20 Mbps selectable, 20 Mbps is default
Operating Temperature	0°C to +60°C (32°F to 140°F)
Power Requirement	+24VDC (±10%)
Input Channel	1 for HSL system, 1 for Motionnet system
Output Channel	2 for HSL system, 3 for Motionnet system

Jumpers

JP1		JP2 (When reset)	
1-2	3M	1-2	Clear Data(Default)
3-4	6M(Default)	2-3	Keep Data
5-6	12M		

JP3 Terminator Resistor		JP4	
1-3 2-4	ON	1-3 2-4	Separate Power Separate GND
3-5 4-6	OFF(Default)	3-5 4-6	Common Power Common GND(Default)

JP5 (Digital Input ONLY)		JP6	
1-2	NPN(Default)	1-3 2-4	Full Duplex(Default)
2-3	PNP	3-5 4-6	Half Duplex

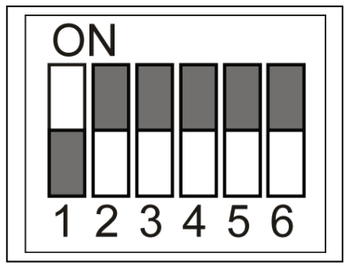
DIP Switch Setting

The DST-HUB provides a single DIP switch to set both Motionnet & HSL transmission rates, as shown. Set “ON” as binary “1” and “OFF” as binary “0”. Please note there is no function on the 6th pole, which is kept at “OFF”.

SW301.1	SW301.2	HSL Transmission Rate
0	0	Not used
0	1	3 Mbps
1	0	6 Mbps
1	1	12 Mbps

SW301.3	HSL Comm. Methodology
0	Half Duplex
1	Full Duplex

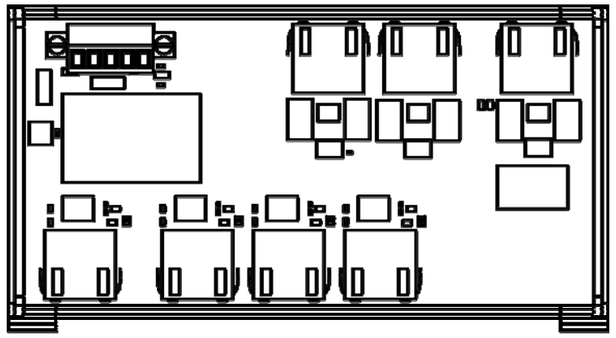
SW301.4	SW301.5	MNET Transmission Rate
0	0	2.5 Mbps
0	1	5 Mbps
1	0	10 Mbps
1	1	20 Mbps



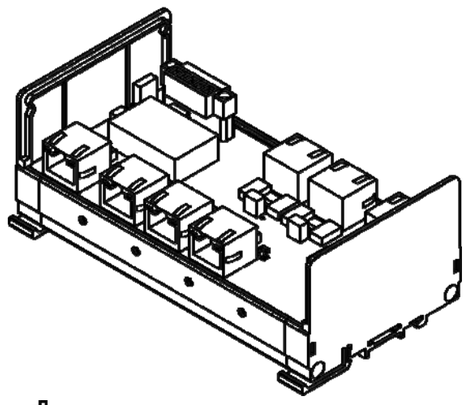
Dimensions

98 x 71.8 x 52.7 mm (3.86 x 2.83 x 2.07 in)

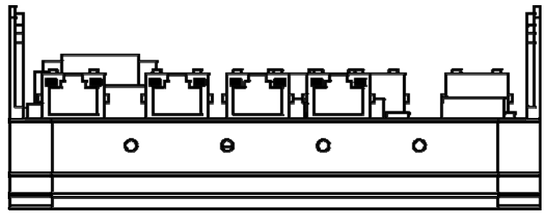
Deployment views



Top View



¾ Elevated View



Front View

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