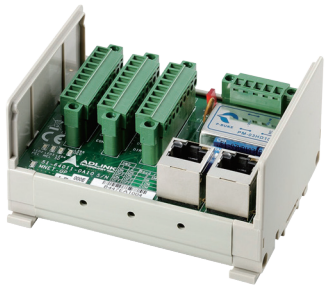
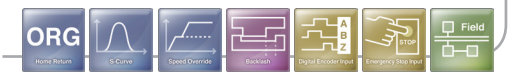
MNET-GP

Distributed Single-axis Motion Control Module for General Purpose





Introduction

The MNET-GP is a single-axis motion control module for Motionnet distributed motion system. It is compatible with any servo drive, particularly stepper drives. The compact size of the MNET-GP reduces space requirements for motion system control and saves wiring and system assembly costs. To increase connectivity of motor drives, ADLINK provides both dedicated control modules and the MNET-GP general purpose single-axis module. Simple connection is enabled to any stepper drive and other servo drives. The Motionnet bus can support up to 64 single-axis modules in-line.

Specifications

Power Indicator	Displays the status of the 3.3 V_{DC} internal control power (red LED)
Operating Temperature	0°C to +60°C (32°F to 140°F)
Operating Ambient Humidity	80% RH or less (non-condensing within the 10°C to 50°C range)
Environmental	RoHS compliant
Dimensions	98 (W) x 71.8 (D) x 52.7 (H) mm (3.86" x.2.83" x 2.07")

Features

- **Up to 64 axes, serially connected**
- **No need for terminal boards, reducing space requirements**
- **Scanning cycles up to 0.97 ms at 20 Mbps when 64 axes are connected**
- **Point-to-point application can be easily completed with multiple single-axis modules**
- **Support for T/S curve programmable acceleration and deceleration**

Applications

- **Conveyance**
- **Long distance semiconductor**
- **Long distance solar cell without any requirement for interpolation or simultaneous motion**
- **Simple motion configuration**

Software Support

OS Information

- Windows® 8/7/XP

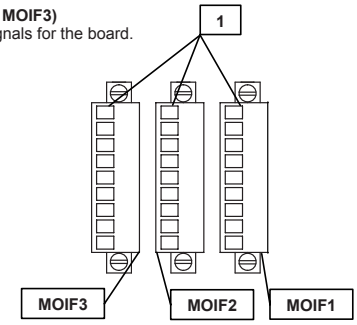
Ordering Information

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Pin Assignment

Servo Driver & Mechanical Input/Output (MOIF1, MOIF2, MOIF3)
Connects servo driver & mechanical system Input/Output signals for the board.



MOIF1

Pin	Name	I/O	Function
1	E24V	-	External power supply input (+24 V DC±5%)
2	SVON	O	Servo on output
3	ERC	O	Deflection counter clear output
4	ARM-RST	O	Alarm reset output
5	EGND	-	External power supply ground
6	OUT+	O	Pulse output signal (+)
7	OUT-	O	Pulse output signal (-)
8	DIR+	O	Direction signal (+)
9	DIR-	O	Direction signal (-)

MOIF2

Pin	Name	I/O	Function	Pin	Name	I/O	Function
1	EA+	I	Encoder A phase (+)	6	EZ-	I	Encoder Z phase (-)
2	EA-	I	Encoder A phase (-)	7	CMP+	O	Comparator output (+)
3	EB+	I	Encoder B phase (+)	8	CMP-	O	Comparator output (-)
4	EB-	I	Encoder B phase (-)	9	EGND	-	External power supply ground
5	EZ+	I	Encoder Z phase (+)				

Servo Driver & Mechanical Input/Output (MOIF1, MOIF2, MOIF3) (cont'd)

MOIF3

Pin	Name	I/O	Function	Pin	Name	I/O	Function
1	INP	I	Positioning complete	6	MEL	I	Negative end limit
2	RDY	I	Servo ready	7	ORG	I	Zero position input
3	ALM	I	Alarm	8	SD	I	Slowdown input
4	PEL	I	Positive end limit	9	LTC	I	Latch input
5	EGND	-	Positioning complete				

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