

MNET-J3/S23/MIA/DA2/SAN

Distributed Single-axis Motion Control Modules



Introduction

ADLINK's Motionnet products provide system integrators with a simple configuration and reduced wiring method for a cost-effective solution for motion applications utilizing multiple single axis. With this new concept of direct plug-in modules, the amount of space used and the amount of wiring required is greatly reduced from traditional terminal board connections.

After the module is plugged into the servo driver, all that is needed is a LAN cable to make the serial connection between the modules. Different servo drivers can be lined up on the Motionnet bus, making motion control configuration much simpler than PCI board solutions. The Motionnet bus can support up to 64 single-axis modules.

Features

- No command frequency limitation
- Available for Mitsubishi J3A/J4A, Panasonic MINAS A4/A5, and Yaskawa Sigma V, Delta A2, and Sanyo R series
- Up to 64 axes, serially connected
- No need for terminal boards – reduces space
- The scanning cycle time 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
- Supports linear/s-curve acceleration and deceleration

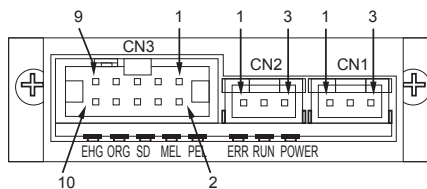
Ordering Information

- **MNET-J3**
Motionnet distributed single-axis motion control module for Mitsubishi J3A/J4A
- **MNET-S23**
Motionnet distributed single-axis motion control module for Yaskawa Sigma V
- **MNET-MIA**
Motionnet distributed single-axis motion control module for Panasonic MINAS A4/A5
- **MNET-DA2**
Motionnet distributed single-axis motion control module for Delta A2
- **MNET-SAN**
Motionnet distributed single-axis motion control module for Sanyo R series

Specifications

| | |
|------------------------------|---|
| ■ Power Indicator | Displays the status of the 3.3 Vdc internal control power (red LED) |
| ■ Operating Temperature | 0°C to +50°C (32°F to 122°F) |
| ■ Operating Ambient Humidity | 80% RH or less (non-condensing within the 10°C to 50°C range) |
| ■ Environmental | RoHS compliant |
| ■ Vibration | JIS C0040 compliant |
| ■ Weight | Approximately 50 g |
| ■ Dimensions | 52.4 x 16.3 x 69.5 mm (W x H x D) (2.04" x 0.63" x 2.71") |

Pin Assignment



| CN1/CN2 Pin Assignment | | | |
|------------------------|--------|----------------------------|------------------|
| No | Name | Function | Signal Direction |
| 1 | RS485+ | Serial communication data+ | I/O |
| 2 | RS485- | Communication data+ | I/O |
| 3 | FG | Frame ground | - |

| CN3 Pin Assignment | | | |
|--------------------|--------|--|------------------|
| No | Name | Function | Signal Direction |
| 1 | PEL | Positive end limit | I |
| 2 | MEL | Negative end limit | I |
| 3 | SD/CPN | Slowdown input / comparator output (+) | I/O |
| 4 | ORG | Zero position input | I |
| 5 | EMGI | Emergency stop input | I |
| 6 | CPN | Comparator output (-) | O |
| 7 | 24V | 24 Vdc Power source | I |
| 8 | GND | Ground | I |
| 9 | GND | Ground | I |
| 10 | FG | Frame ground | - |