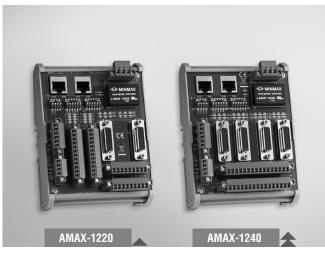
AMAX-1220 AMAX-1240

Open Frame Type 2/4-axis AMONet Motion Slave Modules



Features

- End limit logic is switchable (high or low active)
- BoardID is switchable
- Easily visible LED indicators on board to do diagnosis
- Direct wire to servo drive to save terminal board space while installation
- Max. 6.5 MHz, 4-axis pulse output
- 28 bits counter for incremental encoder
- Horizontal installation for for servo or stepping motor driver
- Suitable for DIN-rail mounting



Introduction

AMAX-1220 and AMAX-1240 have compact open frame designs for horizontal placement and an interface connector mounted on the board. With a transfer cable to servo drive, both models can conveniently connect to Mitsubishi J3, Yaskwa Sigma V and Panasonic A4/A5.

The AMAX-1220 is an economic 2-axis AMONet slave module which supports motion functionality in point-to-point (PTP), linear & circular interpolation, simultaneously start/stop among multiple slave modules, and brake signal to serve for emergence consideration. The AMAX-1240 is an advanced 4-axis AMONet slave module which not only supports AMAX-1220 motion functionality, but also supports advanced features in position compare and triggering function. Both linear interval and table setups are supported.

Specifications

Pulse Type Motion Control

 Motor Driver Support
 Number of Axes
 MMAX-1220: 2 AMAX-1240: 4
 Interpolation

Max. Output Speed 6.5 Mpps
 Step Count Range ±134, 217, 728

Pulse Output Type
 OUT/DIR, CW/CCW, A/B phase

■ **Position Counter** ±134, 217, 728

• Home Modes 13

Velocity Profiles
 T-Curve, S-Curve

Local I/O

Machine Interfaces: EL+/-, ORG and SD (Slow Down) for Each Axis
Servo Driver Interfaces: ALM, RDY, SVON, INP, Break for Each Axis
Position Compare I/O: LTC, CMP for Each Axis(Only available for

AMAX-1240-AE)

Simultaneous Move Within

Multiple Modules: CSTA/CSTP (Simultaneously Start/Stop) for

each model

General Purpose I/O: AMAX-1220 supports 8xDI and 8xD0

Encoder Interface

Input Type
 Counts per Enc. Cycle
 A/B phase, CW/CCW
 x1, x2, x4 (AB phase only)

■ **Input Range** Low: 0 ~ 0.5V High: 3.5 ~ 7V

Isolation Protection 2,500 V_{RMS}
 Max. Input Frequency 2 MHz @ 5 V

General

Bus Type AMONet RS-485Certification CE, FCC Class A

RJ-45 x 2 are for communication port
 DB-26 connector by transfer cable to servo
 drives. Other are screw terminal type connectors

Dimensions (L x W x H) 141 x 108 x 60 mm (5.6" x 4.3" x 2.4")

• System Power 2 W @ 24 V typical

ConsumptionOutput Channel Power

Consumption 120W typical, 240W max.

Input Channel Power

Consumption AMAX-1220: 8 W @ 24 V external power (max.) AMAX-1240: 10 W @ 24 V external power (max.)

System Power Input 24 V_{DC} within 200 mV ripple

• **Humidity** 5 ~ 95% RH, non-condensing (IEC 60068-2-3)

• Operating Temperature $0 \sim 60^{\circ}\text{C} (32 \sim 140^{\circ}\text{F})$

Ordering Information

AMAX-1220-AE
 AMAX-1240-AE
 Economic 2-axis AMONet Motion Control Module
 Advanced 4-axis AMONet Motion Control Module

Accessories

PCL-10153PA5-2E
PCL-10153PA5LS-2E
PCL-10153YS5-2E
PCL-10153MJ3-2E
PCL-10153DA2-2E
PCL-10153DA2-2E
50-pin Cable to Panasonic A4/A5 Servo, 2 m
50-pin Cable to Yaskawa Sigma V/7 Servo, 2 m
50-pin Cable to Mitsubishi J3/J4 Servo, 2 m
50-pin Cable to Delta A2 Servo, 2 m

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