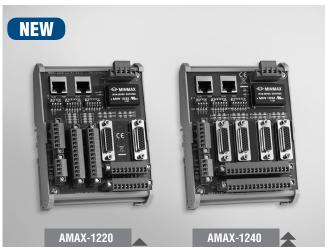
# AMAX-1220 AMAX-1240

## 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
 MAMX-1220: 2 AMAX-1240: 4
 Interpolation
 Max. Output Speed
 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 8xDO

**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<sub>RMS</sub>
 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

**Consumption**Output Channel Power

Consumption 120W typical, 240W max.

Input Channel Power Consumption

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

System Power Input
 24 V<sub>DC</sub> 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
 50-pin Cable to Panasonic MINAS A Servo, 2 m
 50-pin Cable to Yaskawa Sigma V Servo, 2 m
 50-pin Cable to Mitsubishi J3 Servo, 2 m

PCL-10153DA2-2E 50-pin Cable from ADAM-3955/ADAM-3956 to Delta

A2 Servo, 2 m