# AMAX-2750SY Series

**32-ch Isolated Digital Input/Output Slave** Modules



### **Features**

- Max. 20 Mbps transfer rate
- Onboard terminal for direct wiring
- Easy installation with RJ45 phone jack and LED diagnostic
- LED indicator for each IO channel (switch by SW4)
- Selection of I/O-channel configuration (32-ch DI, 32-ch DO or 16/16-ch Digital I/O)
- 2,500 V<sub>RMS</sub> Isolation voltage
- Suitable for DIN-rail mounting

## Introduction

The AMAX-2750SY series consists of digital slave modules for AMONet RS-485 that extend the digital I/O capacity. All the digital I/O slave extension modules are connected serially with a simple Cat.5 cable. This reduces wiring between driver and controller and is very suitable for highly integrated machine automation applications. High speed, scalability and cost-effectiveness ensures a solid solution for machine builders. There are 3 main types of digital I/O slave modules, 32-ch digital input, 32-ch digital output, and 16/16-ch digital input/output. With these slave modules, you can connect actuators/sensors directly with minimum hassle. You can access I/O points nearby or 100 meters away using simple and low-cost wiring, and the high speed of AMONet RS-485 makes it possible to scan 2,048 I/O channels in 1.04 ms.

# **Specifications**

#### **Isolated Digital Input**

- Channels
- AMAX-2752SY: 32 (4 ports) AMAX-2756SY: 16 (2 ports)

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- Input Type
- Isolation Protection 2,500 V<sub>BMS</sub>
- Opto-Isolator Response 18 µs
- 1 kΩ @ 0.5 W Input Resistance

#### **Isolated Digital Output**

- Channels AMAX-2754SY: 32 (4 ports) AMAX-2756SY: 16 (2 ports) Output Type Sink (NPN) (open collector Darlington transistors) Isolation Protection 2,500 VRMS Output Voltage  $10 \sim 30 V_{DC}$ 150 mA/ea. for multiple-channel usage. Sink Current
  - total 1.1 A max. (1 port)

- General
- Bus Type AMONet RS-485 CE. FCC Class A
- Certification
- Connectors
- Dimensions (L x W x H) 125 x 47.6 x 151 mm (4.9" x 1.8" x 5.9") AMAX-2752SY: 1.2 W typical, 5 W max.
- Power Consumption
- Power Input
- Power Supply for DIO
  - 10 ~ 30 V<sub>DC</sub> (Current < 2A) 5 ~ 95% RH, non-condensing (IEC 60068-2-3)
- Humidity Operating Temperature 0 ~ 60°C (32 ~ 140°F)

## **Ordering Information**

- AMAX-2752SY-AE AMAX-2754SY-AE
- 32-ch Isolated Digital Input AMONet Module
- 16/16-ch Isolated Digital I/O AMONet Module
- 32-ch Isolated Digital Output AMONet Module

2 x RJ45 and 2 x 40-pin wiring board

AMAX-2754SY: 1.2 W typical, 5 W max. AMAX-2756SY: 1.2 W typical, 5 W max.

24 V<sub>DC</sub> within 200 mA ripple

AMAX-2756SY-AE

**ADVANTECH Motion Control** 

All product specifications are subject to change without notice