

# AMAX-2750SY Series

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

NEW



AMAX-2752SY

AMAX-2754SY

AMAX-2756SY



### 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 DI, 32 DO or 16/16 DI/O)
- 2500 Vrms 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 DI/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 DI/O slave modules, 32In, 32Out, and 16In/16Out. 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 2048 IO channels in 1.04 ms.

### Specifications

#### Isolated Digital Input

- **Channels** AMAX-2752SY: 32 (4 ports)  
AMAX-2756SY: 16 (2 ports)
- **Input Type** Dry contact
- **Isolation Protection** 2,500 V<sub>RMS</sub>
- **Opto-Isolator Response** 18 μs
- **Input Resistance** 1 kΩ @ 0.5 V

#### 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 V<sub>RMS</sub>
- **Output Voltage** 5 ~ 30 V<sub>DC</sub>
- **Sink Current** 1CH: 500 mA (1 port)  
150 mA/ea. for multiple-channel usage, total 1.1A max.

#### General

- **Bus Type** AMONet RS-485
- **Certifications** CE
- **Connectors** 2 x RJ45, 2 x 40-pin wiring terminal
- **Dimensions (L x W x H)** 126 x 46 x 162 mm
- **Power Consumption** AMAX-2752SY: 1.2 W typical, 13 W max.  
AMAX-2754SY: 1.2 W typical, 5 W max.  
AMAX-2756SY: 1.2 W typical, 8 W max.
- **Power Input** 24 V<sub>DC</sub> within 200 mA ripple
- **Power Supply for DIO** 10 ~ 30 V<sub>DC</sub> (Current < 2A)
- **Humidity** 5 ~ 95% RH, non-condensing (IEC 68-2-3)
- **Operating Temperature** 0 ~ 60° C (32 ~ 140° F)

### Ordering Information

- **AMAX-2752SY** 32-ch Isolated Digital Input Slave Module
- **AMAX-2754SY** 32-ch Isolated Digital Output Slave Module
- **AMAX-2756SY** 16/16-ch Isolated Digital Input/Output Slave Module