

AMAX-2050KW AMAX-2050FCE

GX2-400 Machine Control Box with AMONet Interface

GX2-400 Machine Control Box with AMONet and CAN Interface

NEW



AMAX-2050FCE

AMAX-2050KW



Features

- Onboard AMD Geode™ GX2 processor, up to 256 MB onboard DDR
- 128 Kbyte battery backup RAM
- Supports AMONet series for remote motion control and data acquisition
- 2 x RS-232 ports and 1 x RS-422/485 port with automatic flow control
- 1 x 10/100 Base-T RJ-45 port and 2 x USB ports
- 4 x programmable diagnostic LEDs and 1 x buzzer
- KW ready solution (AMAX-2050KW only)
- Suitable for DIN-rail mounting

Introduction

Advantech's AMAX-2050KW is a Pentium® III grade platform with an onboard AMONet controller, which is designed for embedded machine automation applications. From the peripheral point of view, with one AMONet master port AMAX-2050KW can control up to 2048 I/O points or 256 axes. Also, AMAX-2050KW offers one LAN and dual USB interfaces to fulfill user's various communication needs. In addition, it also offers two RS-232 and one RS-422/485 communication ports with automatic flow control functionality.

AMAX-2050KW supports Windows CE .NET, which offers a pre-configured image with optimized onboard device drivers. MULTIPROG supports all IEC 61131-3 programming languages. Depending on the task to be handled, your experience and company standards, you may choose one of the five standardized programming languages. AMAX-2050FCE comes with a built-in CAN interface to ensure data transmission and support for the DLL library, making it suitable for WinCE development.

Specifications

General

- **Certifications** CE
- **Dimensions (L x W x H)** 125 x 47.6 x 151 mm (4.9" x 1.8" x 5.9")
- **Power Consumption** Typical: 8 W
Max.: 15 W
- **Power Supply** Min. 15 W (9 ~ 36 V_{DC}) (e.g. +24 V @ 625 mA)
- **OS Support** Windows® CE .NET 5.0

System Hardware

- **CPU** AMD Geode GX2-400
- **Battery Backup RAM** 512 KB
- **Indicators** Power, CF, alarm for RAM backup battery and 4 x programmable diagnostic LEDs
- **Keyboard/Mouse** 1 x PS/2
- **Memory** 256 MB DDR onboard
- **Storage** SSD: 1 x internal (Master Card) & 1 x external (Slave Module) type I/II CompactFlash® slot
- **VGA** DB15 VGA connector
- **Watchdog Timer** Programmable

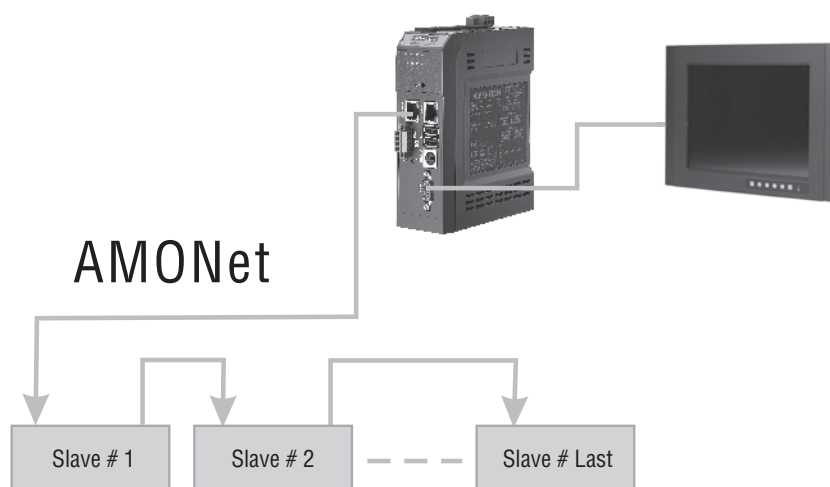
Communications

- **Serial Ports** 2 x RS-232 and 1 x RS-422/485
Isolation with automatic RS-485 data flow control
- **Serial Port Speed** RS-232: 50 ~ 115.2 kbps
RS-422/485: 50 ~ 921.6 kbps max.
- **LAN** 1 x 10/100 Base-T RJ-45 ports
(support RTL 8100B LAN chip)
- **USB Ports** 2 x USB, UHCI, Rev. 1.1 compliant
- **AMONet Rings** 1 x isolated AMONet, connect up to 2048 digital I/O channels or 64 motion axes
- **CAN Port** 1 (AMAX-2050FCE)

Environment

- **Operating Humidity** 5 ~ 85% RH, non-condensing (refer to IEC 68-2-3)
- **Operating Temperature** 0 ~ 50° C

System Architecture



*Slave can be Motion or Digital I/O modules

**Last Slave module needs [Terminator] setting

Ordering Information

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|------------------------|---|
| ▪ AMAX-2050KW | Machine Control Box w/ AMONet Interface |
| ▪ AMAX-2050FCE | Machine Control Box w/ AMONet and CAN Interface |
| ▪ AMAX-2241/PMA | 4-axis AMONet Motion Module for Panasonic Minus A |
| ▪ AMAX-2242/J2S | 4-axis AMONet Motion Module for Mitsubishi MR-J2S |
| ▪ AMAX-2243/YS2 | 4-axis AMONet Motion Module for Yaskawa Sigma-II |
| ▪ AMAX-2752SY | 32-ch Isolated Digital Input AMONet Module |
| ▪ AMAX-2754SY | 32-ch Isolated Digital Output AMONet Module |
| ▪ AMAX-2756SY | 16/16-ch Isolated Digital I/O AMONet Module |
| ▪ PCL-10220M-2 | 20-pin SCSI Cable, 2 m |
| ▪ PCL-10150M-2 | 50-pin SCSI Cable, 2 m |
| ▪ MPROG-BAS33 | KW Multiprog v3.3 (128-byte I/O) |
| ▪ MPROG-ADV33 | KW Multiprog v3.3 (64k-byte I/O) |