AMAX-2050KW

GX2-400 Machine Control Box with AMONet Interface



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
- Two RS-232 and One RS-422/485 ports with automatic flow control
- One 10/100Base-T RJ-45 port and two USB ports
- Four programmable diagnostic LEDs, and one buzzer
- KW ready solution

Introduction

Advantech's AMAX-2050KW is a Pentium[®] III grade platform with an onboard AMONet controller, which is designed for embedded machine automation applications. It provides special mechanism to protect machine builder's IP, also the self diagnostic function. From the peripheral point of view, with one AMONet master port AMAX-2050KW can control up to 2048 I/O points and 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 port 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. The use of MULTIPROG offers you many advantages. As all essential data can be displayed in MULTIPROG, frequent switching between different tools during PLC programming and commissioning is no longer necessary. Observers guarantee data consistence with other tools, thus the engineering effort for the programming of PLCs is reduced.

Specifications

General

- Certifications
- Dimensions (W x H x D) 47.6 x 156 x 125 mm
- Power Consumption 8 W (Typical), 15 W (Max.)

128 KB

1 x PS/2

CE

- Power Supply Spec.
- OS Support

Min. 15 W (9 ~ 36 V_{DC}) (e.g +24 V @ 625 mA) Windows[®] CE .NET 5.0

AMD Geode GX2-400

256 MB DDR onboard

I/II CompactFlash® slot

DB15 VGA connector

Programmable

programmable diagnostic LEDs

Power, CF, Alarm for RAM backup battery and 4

SSD: 1 x Internal (Master) & 1 x External (Slave) type

System Hardware

- CPU
- Battery Backup RAM
- Indicators
- Keyboard/Mouse
- Memory
- Storage
- VGA
- Watchdog Timer

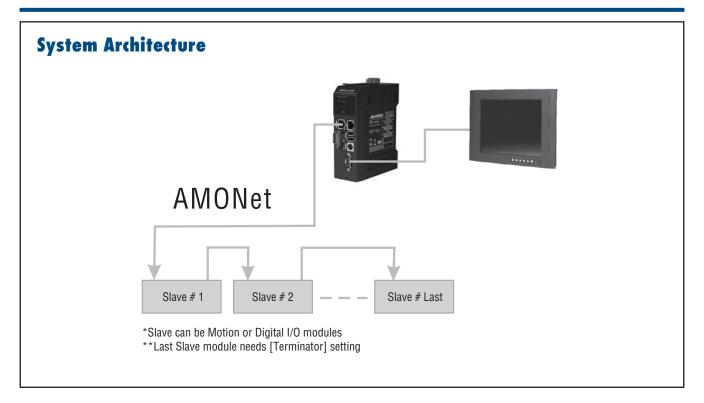
Communications

 Serial Ports 	2 x RS-232, 1 x RS-422/485 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
 USB Ports 	2 x USB, UHCI, Rev. 1.1 compliant
 AMONet Rings 	1 x Isolated AMONet, connect up to 2048 DIO channels or 64 motion axes

Environment

- Operating Humidity 5 ~ 85% RH, non-condensing (refer to IEC 68-2-3)
- Operating Temperature $~0 \sim 50^{\circ} \ C$

AMAX-2050KW



Ordering Information

•	AMAX-2050KW	GX2-400 Machine Control Box with AMONet Interface
•	AMAX-2210	1-axis AMONet RS-485 Motion Slave Module
•	AMAX-2211/PMA	1-axis AMONet RS-485 Motion Slave Module for Panasonic Minas A
•	AMAX-2212/J2S	1-axis AMONet RS-485 Motion Slave Module for Mitsubishi MR-J2S
•	AMAX-2213/YS2	1-axis AMONet RS-485 Motion Slave Module for Yaskawa Sigma-II
•	AMAX-2241/PMA	4-axis AMONet RS-485 Motion Slave Module for Panasonic Minas A
•	AMAX-2242/J2S	4-axis AMONet RS-485 Motion Slave Module for Mitsubishi MR-J2S
•	AMAX-2243/YS2	4-axis AMONet RS-485 Motion Slave Module for Yaskawa Sigma-II
•	AMAX-2752SY	32-ch Isolated Digital Input Module
•	AMAX-2754SY	32-ch Isolated Digital Output Module
•	AMAX-2756SY	16/16-ch Isolated Digital Input/Output Module
•	AMAX-2710	12-bit, 16kS/s, 16-ch Analog Input, 4-ch Analog Output Slave Module
•	PCL-10220M-2	SCSI 20-pin cable, 2 m (Optional for AMAX-2242/J2S)
•	PCL-10150M-2	SCSI 50-pin cable, 2 m (Optional for AMAX-2241/ PMA and AMAX-2243/YS2)
•	MPROG-BAS33	KW Multiprog Softlogic Development Kit Basic Edition v3.3 for Windows NT/2000/XP (128-byte I/O)
•	MPROG-ADV33	KW Multiprog Softlogic Development Kit Advanced Edition v3.3 for Windows® NT/2000/XP (64k-byte I/O)