ADAM-5510/5510M ADAM-5510KW

4-Slot PC Based Programmable Controller

4-Slot PC Based SoftLogic Controller



Features

- Four Serial Communication Ports (ADAM-5510M/5510KW)
- 4 I/O slots or 8 I/O Slots extension
- 1.5 MB Flash ROM (ADAM-5510M/5510KW) •
- 640 KB SRAM (384 KB for Battery Backup) (ADAM-5510M/5510KW)
- Operating System : ROM-DOS
- Watchdog Timer •
- Software Support : Borland C++ for DOS (ADAM-5510/5510M) .
- Pre-built IEC61131 Softlogic control engine (ADAM-5510KW)

Introduction

The ADAM-5510/5510M are ideal for PC-based data acquisition and control applications. It is a compact, standalone controller with an Intel x86- based CPU running Datalight® ROM-DOS. Built-in battery backup SRAM is the best choice for complex logic or data storage applications.

For professional C/C++ programmers, the ADAM-5510 series application programs may be written and compiled in Inprise (Borland) Turbo C, and downloaded to the ADAM-5510/5510M. With the power of the ADAM-5510/5510M, users can easily accomplish specialized functions which are difficult with traditional controllers. Each ADAM-5510/5510M system can handle up to 4 I/O slots (up to 64 I/O points).

Specifications

		Unregulated + 10 to + 30 V _{nc}	
■ CPU	16-bit microprocessor	 Protected against Power Revers 	
 Memory 	ADAM-5510: 256 KB flash ROM: 170 KB of the 256 KB for user app. 256 KB flash memory 256 KB SRAM: 192 KB of the 256 KB for system use, 60 KB with battery backup ADAM-5510M, ADAM-5510KW 1.5 MB flash memory (960 KB for user applications) 640 KB SRAM, up to 384 KB with battery backup	 Protected against Powe Network Medium Speeds (bps) Maximum Nodes Software Support 	RS-485 (9600, 38 Up to 256
 Operating System 	ROM-DOS	 C Library 	Borland (
 Timer BIOS 	Yes	(ADAM-5510/5510M)	
Real-time Clock	Yes	 KW SoftLogic Software 	ADAM-5
 Watchdog Timer 	Yes	Mechanical	
- COM1	RS-232		12 1147
COM2	RS-485	 Case Diversity Sevenue 	KJW with
Prog. Port/COM3	TX, RX, GND (RS-232 Interface)	 Plug-in Screw Terminal Block 	Accepts (#22 AWG
COM 4	RS-232/485 (ADAM-5510M & 5510KW)	Terminal Diuck	#ZZ AVVG
 Comm. Protocol 	Modbus/RTU (5510KW)	Environment	
 I/O Capacity 	4/8 Slots	 Operating Temperature 	- 10 ~ 70
 Status Display 	Power, CPU, communication and Battery	 Storage Temperature 	- 25 ~ 85
CPU Power	1.0 W	 Humidity 	5~95%,
Consumption		-	
 Certifications 	ADAM-5510: CE, FCC ADAM-5510M, 5510KW, 5510E, 5510EKW: CE	Ordering Info	rma
Isolation		ADAM-5510-A3	4-Slot PC
	2000.1/	ADAM-5510M	4-Slot PC
Communication Power	50	 ADAM-5510KW 	4-Slot PC
 Input/Output Communication 	3000 V _{DC}	ADAM-5510E	8-Slot PC
 Communication 	2500 V _{DC} (COM2 only)	ADAM-5510EKW	8-Slot PC

Power

- sal
 - (2-wire)
 - 8400, 57600 and 115.2 K
 - 56 multi-drop system per serial port
- C++ 3.0 for DOS
- 5510KW
- th captive mounting hardware 0.5 mm² to 2.5 mm², 1 - #12 or 2 - #14 to IG.
- 70° C (14 ~ 158° F)
 - 35° C (-13 ~ 185° F)
 - 6, non-condensing

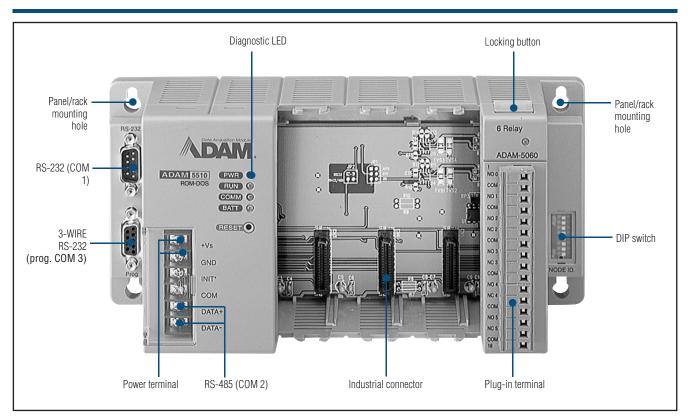
ition

- PC-based Programmable Controller PC-based Programmable Controller PC-based SoftLogic Controller PC-based Programmable Controller PC-based SoftLogic Controller PCLS-OPC/ADM OPC Server for ADAM-4000/5000 Series (RS-485) PCLS-OPC/MOD Modbus OPC Server
- PCLS-ADAMView-W32 ADAMView Data Acquisition Software

AD\ANTECH **Distributed DA&C Systems**

All product specifications are subject to change without notice

ADAM-5510/5510M ADAM-5510KW



Feature Details

Why PC-based Control?

Today, more and more major manufacturers are gaining a competitive edge by replacing their factory floor PLC "black boxes" and utilizing the latest advances in automation control technology. One of the major drawbacks of the PLC is its proprietary nature. Not only is the PLC proprietary, but so is everything associated with it – the hardware, the operating system, the programming methods, the networks, the processors, the I/O, and more. Once you have selected a PLC supplier, you are essentially locked into their product line. This exclusivity limits how far you can expand your operations – and expand your business – since you can only grow as far as your supplier's technology will let you. On the other hand, PC-based controllers are designed as an open structure with advanced capabilities for computing, communication and controlling. There will be no more limitation to further integration and expansion.

ADAM-5510/5510M Stand-alone "C" Programmable Controller

The design of the ADAM-5510/5510M is based on the experience of various needs in industrial control. The ADAM-5510 series adopts a popular RS-485 bus, which can work either as a standalone unit or within a distributed control system. The user only needs to write a program in C to run on the ADAM-5510 for a general-purpose application.

More Data Memory to Support Versatile Applications

The ADAM-5510 series offers plenty of spare memory for developing complex logic or data storage applications, such as data recording, which is difficult for traditional controllers. The ADAM-5510, in addition to its 256 KB of flash ROM, offers 256 KB of flash memory plus 256 KB of SRAM (60 KB of that backed up by a lithium battery). The ADAM-5510M features 1.5 MB flash memory and 640 KB SRAM (up to 384 KB battery backed up memory).

Communication Supported by 2 Communication Ports

The ADAM-5510 series has four independent communication ports. This means ADAM-5510 series can simultaneously communicate with an RS-232 operator interface (COM1), RS-485 devices (COM2), RS-232 3-wire device (COM3), and an RS-232/485 selectable interface (COM4, ADAM-5510M only).

Complete I/O Module and C Library Support

The ADAM-5510 series supports fully industrial I/O modules including digital I/O, analog I/O, counter, and special purpose I/O modules such as T/C and RTD. It also offers wellstocked Inprise (Borland) C libraries, including system resources functions, I/O functions, popular control algorithms and communication functions.

Multiple RS-232 Port Support

The ADAM-5090 is a 4-port RS-232 module that is equipped with 4 RS-232 ports, which make it especially suitable for bi-direction communication. It can simultaneously read/write data from other third-party devices such as barcode readers or PLCs, as long as they have an RS-232 interface. Furthermore, commands can be issued through the ADAM-5090 to control other devices. It is fully integrated with the ADAM-5510 series, and transmits data through RS-232 ports. The whole integrated system is an intelligent stand-alone network, which can be employed in connecting and issuing commands to control devices in remote factory locations.

