

Контроллеры серии ADAM-5510, ADAM-5560

ТЕХНИЧЕСКИЕ ХАРАКТЕРИСТИКИ

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ADAM-5510 Series

4/8 slots PC-based Controller



Features

- Supports Modbus/RTU, Modbus/TCP Master and Slave function libraries
- Windows-based utility
- Optional support C Programming and IEC-61131-3 standard
- Complete set of I/O modules
- Built-in real-time clock and watchdog timer
- ROM-DOS operating system
- 4 serial communication ports
- Optional support Ethernet Interface with network function, such as Web Server, FTP Server and Email Alarm.
- 4 or 8 I/O slot expansion

Introduction

The ADAM-5510 Series are ideal for PC-based data acquisition and control applications. They are compact, controllers 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 Borland C++ 3.0, and downloaded to the controller.

For user who familiar with PLC programing environment, we provide the option for customer to use the KW softlogic which supports 5 standard IEC 61131-3 programming languages, including LD/FB/SFC/IL/ST.

Specifications

Control System

- **CPU** 80188, 16-bit microprocessor
- **I/O Slots** Optional 8 or 4 slots
- **LED Indicators** Power, CPU, communications and battery
- **Memory** Flash disk: 1 MB (960 KB for user applications)
Flash memory: 256 KB
Flash ROM: 256 KB
RAM: 640 KB (up to 384 KB with battery backup)
- **Memory (Softlogic version)** Flash disk: 512KB
Flash memory: 768KB
Flash ROM: 256KB
RAM: 640KB SRAM, 32KB with battery backup (ADAM-5510KW)
RAM: 768KB SRAM, 17KB with battery backup (ADAM-5510KW/TCP, ADAM-5510EKW/TP)
ROM-DOS (MS-DOS 6.22 Compatible)
- **Operating System** ROM-DOS (MS-DOS 6.22 Compatible)
- **Real-time Clock** Yes
- **Watchdog Timer** Yes

Serial Communication

- **Max. Nodes** 256 (in RS-485 daisy-chain network)
- **Distance** 1.2 km (4,000 feet)
- **Speed** 1,200 bps ~ 115.2 kbps (9600, 19200, 38400 bps for Softlogic version)
- **Isolation** 2500 V_{DC} (COM2 only)

Ethernet Communication

- **Medium** Cat.5 cable with RJ-45 connector
- **Distance** 100 m
- **Speed** 10/100Base-T

Power

- **Power Consumption** 4 W @ 24 V_{DC} (not including I/O modules)
- **Power Input** Unregulated 10 ~ 30 V_{DC}
- **Isolation** 3000 V_{DC}
- **Reverse Protection** Yes

Software

- **ROM DOS version** C library for Borland C++ 3.0
- **Softlogic version** Development tool : KW Multiprog
Runtime kernel : ProConOS

General

- **Certification** CE, FCC Class A
- **Connectors** COM1 : DB9-M
COM2 : Screw terminal(RS-485)
COM3 : DB9-F (RS-232/Programming)
COM4 : DB9-M (RS-232/485)
Power : Screw terminal
LAN : RJ-45 (option)
- **Dimensions** 4-slot: 231 x 110 x 75 mm
8-slot: 355 x 110 x 75 mm
- **Enclosure** ABS+PC
- **Mounting** DIN-rail, stack, wall

Environment

- **Humidity** 5 ~ 95%, non-condensing
- **Operating Temperature** -10 ~ 70°C (14 ~ 158°F)
- **Storing Temperature** -25 ~ 85°C (-13 ~ 185°F)

Ordering Information

- **ADAM-5510M** 4-slot PC-based Controller
- **ADAM-5510E** 8-slot PC-based Controller
- **ADAM-5510/TCP** 4-slot PC-based Controller with Ethernet
- **ADAM-5510E/TCP** 8-slot PC-based Controller with Ethernet
- **ADAM-5510KW** 4-slot Softlogic Controller
- **ADAM-5510KW/TCP** 4-slot Softlogic Controller with Ethernet
- **ADAM-5510EKW/TP** 8-slot Softlogic Controller with Ethernet
- **MPROG-PRO535E** KW Multiprog Pro v5.35 (128k bytes I/O, Win7 support)

ADAM-5560CE/XPE ADAM-5560KW

7-slot PC-based Controller with Intel® Atom™ CPU

7-slot Micro PAC with Intel® Atom™ CPU

NEW



RoHS COMPLIANT PRODUCT CE FCC

Features

- Optional SCADA software WebAccess through CTOS
- Integrated VGA port for local display of HMI software
- Can be operated with or without display/ keyboard/ mouse
- Remote monitoring through Web Server
- Remote maintenance via FTP Server
- Supports .NET class library in Windows CE and XP embedded
- Supports IEC-61131-3 SoftLogic Control Software
- Supports Modbus/RTU (Master/Slave) and Modbus/TCP (Server/Client)
- Supports SD Storage I/O Module
- Remote I/O expansion
- Supports ADAM-5000 I/O Modules

Introduction

The ADAM-5560 is a Programmable Automation Controller designed for control tasks which require Industrial PC computing performance with a PLC's robustness. The ADAM-5560 offers an Intel Atom CPU along with control specific features such as watchdog timer, battery backup RAM and deterministic I/O. The ADAM-5560KW features 5 standard IEC 61131-3 programming languages in Windows CE, so PLC users can develop control strategies with their own familiar programming languages. The powerful Multiprog KW Software and stable ProConOS have caused the ADAM-5560KW to become the best choice for a Programmable Automation Controller on the market today. Besides, the ADAM-5560CE offers an open platform that helps users to develop their own program using the common eVC and .NET programming environments to build compact and reliable control solutions. With the optional HMI Software and built-in VGA port, users no longer need to build additional SCADA PC's into their applications. This compact and powerful PAC is ideal for a variety of applications ranging from machine automation to SCADA applications.

Specifications

Control System

- **CPU** Intel Atom Z510P
- **I/O Capacity** 7 slots
- **LED Indicators** Power, User defined
- **Memory** 1 GB DDR2 SDRAM
1 MB Battery Backup
1 x CompactFlash® Card (Internal, 4GB)
- **Operating System** Windows® CE5.0/Windows XP Embedded
- **Real-time Clock** Yes
- **Watchdog Timer** Yes
- **Control Software** ADAM-5560CE: eVC and .NET library
ADAM-5560XPE: .NET library
ADAM-5560KW: KW Multiprog (development tool)
ProConOS (runtime Kernel)

Communications

- **Comm. Protocol** Modbus/RTU and Modbus/TCP
- **Medium** 2 x 10/100 Base-T w/ RJ-45
4 x RS-485 w/ DB9

Protection

- **Communication** RS-485 Isolation 1.5kV for COM1, COM3 and COM4
RS-485 Isolation 2.5kV for COM2
- **Power Reversal** Yes

Power

- **Power Consumption** 17w @ 24 V_{DC} (Not include I/O modules)
- **Power Input** 12 ~ 24 V_{DC}, ± 20%

General

- **Certification** CE, FCC Class A
- **Connectors** 1 x RS-232/485 (COM1)
1 x RS-485 (COM2)
1 x RS-232/485 (COM3)
1 x RS-232/485 (COM4)
2 x USB 2.0 ports (KB/Mouse via USB Ports)
1 x VGA (1024 x 768 Resolution)
- **Dimensions** 355 x 110 x 75 mm
- **Enclosure** ABS+PC
- **Mounting** DIN-rail, wall mount (panel mount)
- **Plug-in Screw Terminal** Accepts 0.5 mm² to 2.5 mm², 1 - #12 or 2 - #14 to #22 AWG

Environment

- **Humidity** 5% to 95%, non-condensing
- **Operating Temperature** 0 ~ 55°C (32 ~ 131°F)
- **Storage Temperature** -25 ~ 85°C (-13 ~ 185°F)

Ordering Information

- **Open Platform Solution**
ADAM-5560 7-slot PC-based Controller with Intel ATOM CPU
SQF-P10S2-16G-ETE Suggested 16G CF NR, DMA (-40 ~ 85°C)
2070012906 WES2009 Eng. for ADAM-5560
- **ADAM-5560CE** 7-slot PC-based Controller with Intel ATOM CPU (WinCE5.0)
- **ADAM-5560KW** 7-slot Micro PAC with Intel Atom CPU

ADAM-5560CDS

7-slot PC-based Intel® Atom™ CPU soft logic Controller with integrated target visualization

NEW



Features

- Cost effective DIN Rail IPC with VGA port for integrated target visualization
- Optional CoDeSys web Visu for Remote monitoring using Web browser based HMIs
- Free of charge CoDeSys V3 IEC-61131-3 development tool
- Supports five logic programming languages (LD,IL,FBD,SFC,CFC)
- Supports Modbus/RTU (Master/Slave) and Modbus/TCP (Server/Client)
- Supports SD Storage I/O Module
- Fully integration of all Advantech Modbus TCP/RTU remote I/O modules of the ADAM 4000/6000 series
- Seven I/O expansion slots supporting a wide range of cost effective local I/O Modules
- Two alternative slots for serial communication expansion (RS-232/422, CAN)

Introduction

The ADAM-5560CDS is a cost effective DIN-Rail IPC for control and data acquisition tasks which require Industrial PC computing performance with a PLC's robustness. The ADAM-5560CDS, is equipped with an Intel Atom CPU, along with control specific features such as watchdog timer, battery backup RAM and deterministic I/O. The ADAM-5560CDS features five standard IEC 61131-3 programming languages in Windows CE, so PLC users can develop control strategies with their own familiar programming languages such as LD,IL,FBD,SFC,CFC. The powerful CoDeSys V3 Development Software and CoDeSys Integrated stable run time allows the ADAM-5560CDS to become the best choice for building cost effective, compact and reliable control solutions on the market today. With integrated target visualization HMI software and built-in VGA port there is no need to develop software for an additional Operator Panel. The additional optional CoDeSYS web Visu allows easy integration for remote monitoring through cost effective browser based HMI terminals or mobile devices. The powerful and flexible ADAM-5560CDS DIN RAIL IPC controller is ideal for a variety of control and data acquisition applications ranging from factory facilities, green house automation, water and waste water to environmental monitoring.

Specifications

Control System

- **CPU** Intel Atom Z510P
- **I/O Capacity** 7 slots
- **LED Indicators** Power, User defined
- **Memory** 1 GB DDR2 SDRAM
- **Storage** 1 x CompactFlash® Card (Internal, 1 GB)
- **Operating System** Windows CE5.0
- **Real-time Clock** Yes
- **Watchdog Timer** OS and Application

Protection

- **Communication** RS-485 Isolation 1.5 kV for COM1, COM3 and COM4
RS-485 Isolation 2.5 kV for COM2
- **Power Reversal** Yes

Power

- **Power Consumption** 17W @ 24 V_{DC} (Not include I/O modules)
- **Power Input** 12 ~ 24 V_{DC}, ± 20%

General

- **Certification** CE, FCC Class A
- **Dimensions** 355 x 110 x 75 mm
- **Enclosure** ABS+PC
- **Mounting** DIN-rail, wall mount (panel mount)
- **Plug-in Screw Terminal** Accepts 0.5 mm² to 2.5 mm², 1 - #12 or 2 - #14 to #22 AWG

I/O Interfaces

- **Serial Ports** 1 x RS-485, Terminal, 50~115.2kbps
3 x RS-232/485, DB9, 50~115.2kbps
- **LAN Ports** 2 x RJ-45, 10/100Mbps
- **USB Ports** 2 x USB 2.0
- **Displays** 1 x VGA, supports 1024 x 768

Environment

- **Humidity** 5% to 95%, non-condensing
- **Operating Temperature** 0 ~ 55°C (32 ~ 131°F)
- **Storage Temperature** -25 ~ 85°C (-13 ~ 185°F)

Software

- **Development Tool** CODESYS V3
- **Runtime** Control Win
- **OPC Server** OPC DA
- **Protocol** Modbus/RTU, Modbus/TCP
- **Visualization** Target, Web

Ordering Information

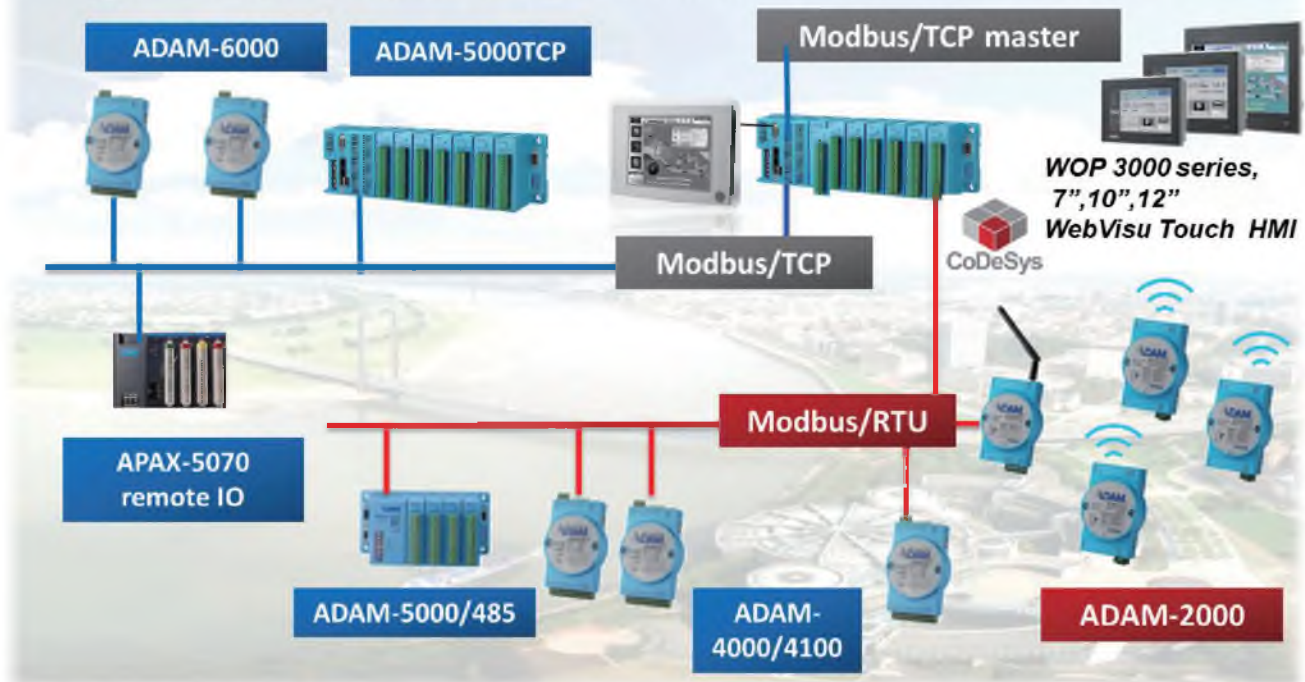
- **CDS-ADAM5560-E0TCE** 7-slot PC-based Controller with Intel Atom CPU and CODESYS V3 runtime with Target Visualization
- **CDS-ADAM5560-EWTCE** 7-slot PC-based Controller with Intel Atom CPU and CODESYS V3 runtime with Target and Web Visualization

Part Number	Description	Part Number	Description
	Analogue I/O Module		Digital I/O Module
ADAM-5013	3-ch RTD Input	ADAM-5051	16-ch DI
ADAM-5017	8-ch AI	ADAM-5051D	16-ch DI w/LED
ADAM-5017P	8-ch AI w/Independent Input Range	ADAM-5051S	16-ch Isolated DI w/LED
ADAM-5018P	7-ch TC Input w/Independent Input Range	ADAM-5052	8-ch Isolated Differential DI
ADAM-5017UH	8-ch Ultra High Speed AI	ADAM-5056	16-ch DO
ADAM-5024	4-ch AO	ADAM-5056D	16-ch DO w/LED
ADAM-5018	7-ch TC Input	ADAM-5056S	16-ch Isolated DO w/LED
		ADAM-5056SO	16-ch Source Type Isolated DO w/LED
		ADAM-5055S	16-ch Isolated DI/O w/LED
		ADAM-5060	6-ch Relay Output
		ADAM-5069	8-ch Power Relay Output w/LED
		ADAM-5081	4-ch/8-ch High Speed Counter/Frequency

Fully Integration of Advantech remote IO solutions

Modbus/TCP Master/slave/RTU Protocol Support

Integration of ADAM-2000/4000/6000 and APAC 5000 remote IO



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