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)

CODESYS | Windows Embedded | RoHS COMPLIANT 2002/95/EC | CE FCC

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