ADAM-5560CDS

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

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.

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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 mm^2 to 2.5 mm^2, 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)

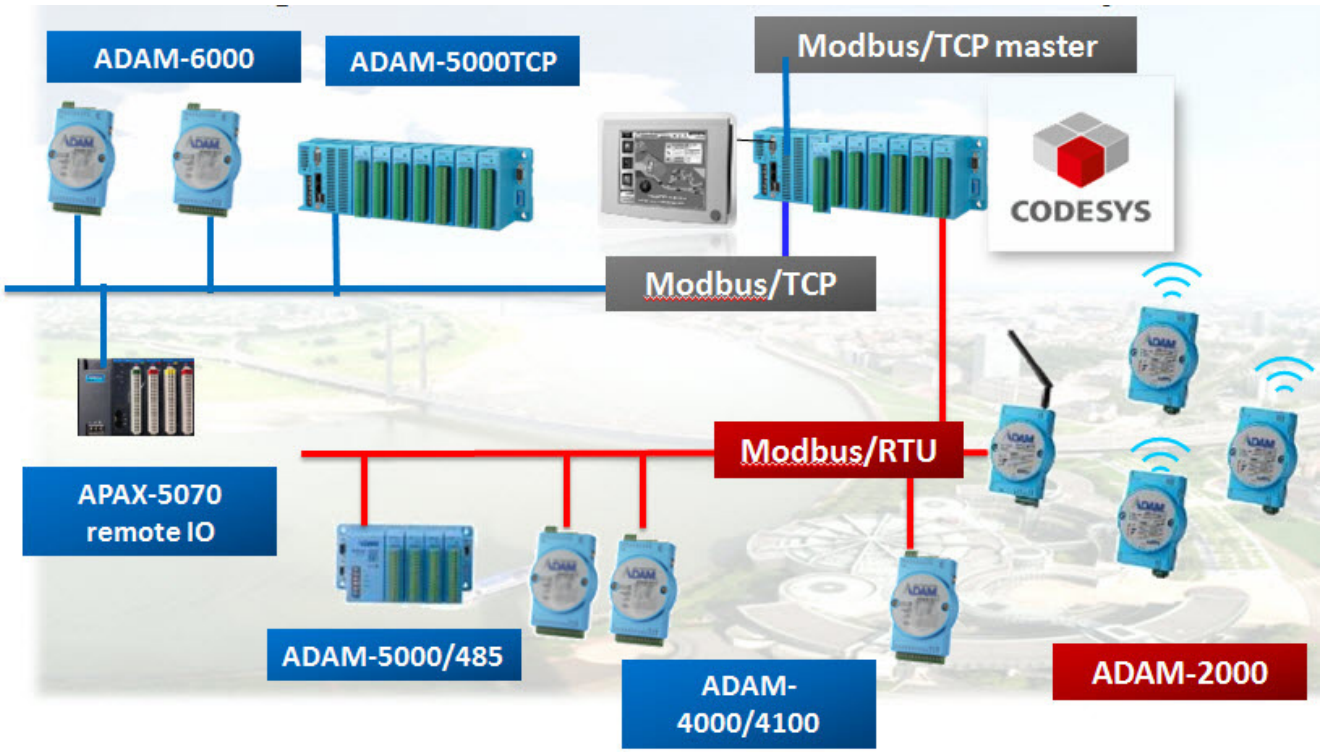
Software

- **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

All product specifications are subject to change without notice

Date updated: 28-Mar-2016

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