

ADAM-5511

PC-based Programmable
Controller with Modbus®



FCC CE

Features

- Online diagnostic function
 - Monitor current I/O status with user's AP running
- Windows® utility
 - Network auto-detecting and I/O module configuration
 - File Management function for remote download, run, stop, terminate, and delete user's AP
 - Analog/digital latch output function
 - Analog input engineering unit scaling function
- Modbus/RTU industrial standard communication protocol
- Up to 115.2 kbps communication speed
- Remote I/O integration with the ADAM-4000 series
- Support modem function with communication library
- Watchdog timer function library
- Offline user's program debug tool (Simu_io.lib)

Introduction

The ADAM-5511 is a compact, stand-alone controller with an Intel® x86-based CPU running Datalight® ROM-DOS. C/C++ programmers can write and compile applications in Turbo C and download them to ADAM-5511. In addition to 256 KB of flash ROM, it offers 512 KB of flash disk space for user's programming files and data storage and 256 KB of SRAM for AP execution. It provides more capacity and reliability for your versatile application requirement.

Specifications

- **CPU** 16-bit microprocessor
- **Memory** 256 KB flash ROM: 170 KB of the 256 KB for user applications
256 KB SRAM: 240 KB of the 256 KB for system use, 60 KB for user with battery backup
512 KB flash disk: 400 KB of the 512 KB for user applications
- **Operating System** ROM-DOS
- **Timer BIOS** Yes
- **Real-time Clock** Yes
- **Watchdog Timer** Yes
- **COM1** RS-232 (Modbus)
- **COM2** RS-485 (Modbus)
- **Programming Port (COM3)** Tx, Rx, GND (RS-232 Interface)
- **I/O Capacity** 4 slots
- **Status Display** Power, CPU, communication, battery
- **CPU Power Consumption** 1.0 W
- **Power Requirement** Unregulated 10 to 30 V_{DC}

Isolation

- **Communication Power** 3000 V_{DC}
- **Input/Output** 3000 V_{DC}
- **Communication** 2500 V_{DC} (COM2 only)

Network

- **Medium** RS-485 (2-wire)
- **Speeds (bps)** 9600, 38400, 57600 and 115.2 k
- **Maximum Nodes** Up to 32 multi-drop system per serial port
- **Remote I/O** Up to 32 nodes ADAM-4000 I/O modules
- **Communication Protocol** Modbus/RTU

Software Support

- **C Library** Turbo C++ 3.0 for DOS
- **Windows Utility**
- **Modbus OPC Server**

Power

- **Unregulated + 10 to + 30 V_{DC}**
- **Protected against power reversal**

Mechanical

- **Case** KJW with captive mounting hardware
- **Plug-in Screw Terminal Block** Accepts 0.5 mm² to 2.5 mm², 1 - #12 or 2 - #14 to #22 AWG

Environment

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

Ordering Information

- **ADAM-5511** PC-based Programmable Controller with Modbus
- **PCLS-OPC/MOD** Modbus OPC Server
- **PCLS-ADAMVIEW32** ADAMView Data Acquisition Software