ADAM-5510

PC-Based Programmable Controller



Features

- · Control Flexibility with C Programming
- Complete Set of I/O Modules
- Built-in 512KB Flash and 256KB SRAM
- Built-in Real-Time Clock and Watchdog Timer
- ROM-DOS operating system
- 4 I/O slot extension

FCC FM CE

Introduction

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

Specifications

• CPU 16-bit microprocessor

Memory
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

Operating System
Timer BIOS
Real-time Clock
Res

Watchdog Timer
COM1
RS-232
COM2
RS-485

Prog. Port/COM3
TX, RX, GND (RS-232 Interface)

• I/O Capacity 4 Slots

Status Display
Power, CPU, communication and Battery

CPU Power 1.0 W

Consumption

Isolation

Communication Power 3000 V_{DC}
Input/Output 3000 V_{DC}

■ Communication 2500 V_{DC} (COM2 only)

All product specifications are subject to change without notice

Power

Unregulated + 10 to + 30 V_{nc}

Protected against Power Reversal

Network

Medium RS-485 (2-wire)

Speeds (bps)
Maximum Nodes
9600, 38400, 57600 and 115.2 k
Up to 256 multi-drop system per serial port

Software Support

C Library Borland C++ 3.0 for DOS

Mechanical

• Case KJW with captive mounting hardware

• **Plug-in Screw** Accepts 0.5 mm² to 2.5 mm², 1 - #12 or 2 - #14 to

Terminal Block #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-5510 PC-based Programmable Controller