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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 |



**ADAM-5510E** **ADAM-5510**



**RoHS**

**COMPLIANT**

2002/95/EC

**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**

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| --- | --- | --- |
| ** 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 |  |
| ** Memory** | RAM: 640 KB (up to 384 KB with battery backup) |  |
| Flash disk: 512KB |  |
| **(Softlogic version)** | Flash memory: 768KB |  |
|  | Flash ROM: 256KB |  |
|  | RAM: 640KB SRAM, 32KB with battery backup |  |
|  | (ADAM-5510KW) |  |
|  | RAM: 768KB SRAM, 17KB with battery backup |  |
| ** Operating System** | (ADAM-5510KW/TCP,ADAM-5510EKW/TP) |  |
| 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 |  |
| ** Isolation** | Softlogic version) |  |
| 2500 VDC (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 VDC (not including I/O modules)

** Power Input** Unregulated 10 ~ 30 VDC

** Isolation** 3000 VDC

** Reverse Protection** Yes

**Software**

** ROM DOS version** C library for Borland C++ 3.0

** Softlogic version** Development tool : KW Multiprog

Runtime kernel : ProConOS

**General**

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| --- | --- | --- |
| ** 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 |  |
| ** Dimensions** | LAN : RJ-45 (option) |  |
| 4-slot: 231 x 110 x 75 mm |  |
| ** Enclosure** | 8-slot: 355 x 110 x 75 mm |  |
| ABS+PC |  |
| ** Mounting** | DIN-rail, stack, wall |  |

**Environment**

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| --- | --- | --- |
| **** | **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)



**Online Download** www.advantech.com/products

All product specifications are subject to change without notice Last updated : 5-May-2015