APAX-5520KW

Micro PAC with XScale CPII



Features

- Onboard XScale® PXA270 520 MHz processor
- 64 MB SDRAM on board, 32 MB Flash
- Control ability for APAX-5000 I/O modules
- Combines with APAX-5570XPE/5571XPE to deliver dual CPU functionality
- IEC-61131-3 programming languages
- 1 x CompactFlash slot for data storage
- 1 x 10/100 Mbps LAN and 1 x RS-485



Introduction

APAX-5520KW can operate in two different ways. APAX-5520KW can be inserted on the backplane, and control I/O modules which are stacked together. In this way, the APAX-5520KW performs as standalone controller since it can run process program by itself. The second way is to combine APAX-5520KW and APAX-5570XPE/5571XPE to form dual CPU architecture. Installing APAX-5520KW on the expansion slot of APAX-5570XPE/5571XPE or on the expansion backplane, the CPU of APAX-5520KW can concentrate on the I/O control process. Since there is no other tasks bothering CPU of APAX-5520KW, its control ability can deliver the best performance, providing the real-time execution. The CPU of the APAX-5570XPE/5571XPE controller can execute other tasks such as HMI/SCADA, recipe, database, communication with other system, data logging, etc. This architecture can deliver more reliability to system when HMI software makes XP Embedded system hang on the the APAX-5570XPE/5571XPE controller, since APAX-5520KW will still continuously execute its task. APAX-5520KW with industrial standard IEC 61131-3 programming tool, Multiprog KW software and stable ProConOS, makes engineers develop their applications in shortest time and save their time-to-market.

Specifications

Control System

CPU XScale PXA270 520 MHz

Flash 32M bytes. SDRAM 64M bytes Memory Battery Backup Memory 256 KB file system, 256 KB direct access

- Operating System Windows CE.NET

 Real-time Clock Watchdog Timer

 Control Software KW Multiprog (development tool)

ProConOS (control kernel)

VGA DB15 connector USB Ports 1 x USB 1.1

Storage 1 x Type II CompactFlash card slot (internal)

Communication (Ethernet)

LAN 1 x RJ-45 Port. 10/100 Mbps Modbus/TCP Server and Client Protocol

Communication (Serial)

Medium RS-485 (2-wire)

32 (in RS-485 daisy-chain network) Maximum Nodes Protocol Modbus/RTU Master and Slave

General

Dimensions (W x H x D) 30 x 139 x 100 mm

210 g Weight

Power Consumption 4.5 W @ 24 V_{DC} (typical)

Environment

Operating Temperature -10 ~ 55 ° C (when mounted vertically)

Storage Temperature $-40 \sim 70^{\circ} \text{ C}$

 Relative Humidity 5 ~ 95% (non-condensing)

Ordering Information

 APAX-5520KW Micro PAC with XScale CPU, KW

MPROG-ADV46E KW Multiprog Advanced v4.6 (64K bytes I/O) MPROG-BAS46E KW Multiprog Basic v4.6 (128 bytes I/O)

APAX-5002 2-slot Backplane Module

 APAX-5343E Power Supply for APAX Expansion Module