APAX-5520CE

PC-based Controller with XScale CPU



Features

- Onboard XScale® PXA270 520 MHz processor
- 64 MB SDRAM on board, 32 MB Flash
- Expands I/O by connecting with APAX-5000 I/O modules
- Windows CE .NET ready platform
- 1 x VGA port for display and 1 x USB port
- 1 x CompactFlash slot for data storage
- 1 x 10/100 Mbps LAN and 1 x RS-485
- Provides C/C++ and .NET class libraries for I/O control and communication



Introduction

APAX-5520CE is a very compact and cost effective controller with XScale PXA270 CPU. The built-in Windows CE operating system makes APAX-5520CE a ready application platform to shorten development time. Connecting with other APAX-5000 I/O modules, APAX-5520CE can become a standalone control system. By C/C++ and .NET libraries for the I/O modules, developers can build their applications under the Windows development environment in a short amount of time.

Specifications

Control System

■ CPU XScale PXA270 520 MHz

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

Operating System Windows CE.NET

Real-time ClockWatchdog TimerYes

Control Software
C/C++ and .NET library with utility

VGA DB15 connectorUSB 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
Protocol Modbus/TCP Server and Client

Communication (Serial)

Medium RS-485 (2-wire)

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

General

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

• **Weight** 210 g

■ **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-5520CE PC-based Controller with XScale CPU, WinCE

APAX-5002
2-slot Backplane Module

APAX-5343E
Power Supply for APAX Expansion Module