APAX-5520CE

PC-based Controller with XScale CPU

NEW

RoHS COMPLIANT 2002/95/EC CE FCC

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 Clock** — Yes
- **Watchdog Timer** — Yes
- **Control Software** — C/C++ and .NET library with utility
- **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
- **Protocol** — Modbus/TCP Server and Client

Communication (Serial)

- **Medium** — RS-485 (2-wire)
- **Maximum Nodes** — 32 (in RS-485 daisy-chain network)
- **Protocol** — 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 ~ 70° 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