APAX-5570KW
APAX-5571KW

Proto PAC with Celeron M CPU

NEW

RoHS COMPLIANT 2002/95/EC CE FCC

Features

- Intel® Celeron® M 1 GHz or 1.5 GHz CPU processor
- Expands I/O by connecting with APAX-5000 I/O modules
- DVI-I supports dual display
- Dual power input for redundancy with power-fail relay
- 1 x RS-232 and 1 x isolated RS-422/485 port
- Easy to develop local HMI software under Windows® XP Embedded
- Supports real-time control tasks under Windows XP Embedded through ProConOS
- Supports IEC-61131-3 programming languages through Mulitprog

Introduction

APAX-5570KW/5571KW is a Programmable Automation Controller designed for control tasks which require Industrial PC computing performance with a PLC's robustness. APAX-5570KW/5571KW features a high performance Intel Celeron M grade CPU with built-in Windows XP Embedded operating system, which allows developing local HMI software under popular programming environments like Microsoft Visual Studio.NET or using standard HMI software like WebAccess. With the local DVI or VGA display, no longer will users be required to develop additional SCADA PC's in their applications. APAX-5570KW/5571KW also bundled KW-Software ProConOS which can prove the deterministic performance of control tasks under Windows XP Embedded. The KW-Software Multiprog programming tool can support 5 standard IEC - 61131-3 programming languages so PLC users can develop control tasks with their own familiar programming languages. This powerful PAC is ideal for a variety of applications ranging from machine automation to SCADA applications.

Specifications

General

- **Cooling System** — APAX-5570KW: Fanless, heatsink only / APAX-5571KW: Heatsink with fan
- **Mounting** — DIN-rail, wall
- **Dimensions (W x H x D)** — 270 x 142 x 126 mm (Refer to Page 13-5 for detail)
- **Weight** — APAX-5570KW: 2.42 kg / APAX-5571KW: 2.46 kg
- **Power Consumption** (Typical, without inserted module) — APAX-5570KW: 30 W @ 24 V_{DC} / APAX-5571KW: 45 W @ 24 V_{DC}
- **Power Input** — 18 ~ 30 V_{DC}
- **Dual Power Input** — Yes
- **Power Reversal** — Yes
- **Real-time Clock** — Yes

Software

- **Operating System** — Windows XP Embedded
- **Control software** — KW Multiprog (development tool) and ProConOS (control kernel)
- **Watchdog Timer** — Yes

System Hardware

- **CPU** — APAX-5570KW: Intel Celeron M 1 GHz (non-cache) / APAX-5571KW: Intel Celeron M 1.5 GHz (1 MB L2 cache)
- **System Chipset** — Intel 915 GME
- **BIOS** — Flash 4 MB
- **Memory** — 512 MB DDR2 DRAM on board (Dual channel mode)
- **Battery Backup RAM** — 1 MB
- **LED Indicators** — Power, Run, Error, Battery

- **Display** — DVI-I supports DVI and VGA for dual display
- **Audio** — Mic-in, Line-out
- **Storage** — 1 x SD card slot
- **Reset Button** — Yes

Communication

- **Serial Ports** — 1 x RS-232, 1 x Isolated RS-422/485
- **Serial Port Isolation Protection** — 2,500 V_{DC} (RS-422/485 only)
- **Baud Rate** — RS-232: 50 bps ~ 115.2 kbps / RS-422/485: 50 ~ 230400 bps
- **LAN** — 2 x RJ-45 Port, 10/100/1000 Mbps
- **USB Ports** — 4 x USB 2.0

Environment

- **Operating Temperature** — 0 ~ 55° C
- **Storage Temperature** — -25 ~ 75° C
- **Relative Humidity** — 5 ~ 95% (non-condensing)

Ordering Information

- **APAX-5570KW** — Proto PAC w/ Celeron M 1 GHz, KW
- **APAX-5571KW** — Proto PAC w/ Celeron M 1.5 GHz, KW
- **APAX-5343** — Power Supply for APAX-5570 Series
- **MPROG-ADV46E** — KW Multiprog Advanced v4.6 (64K bytes I/O)
- **MPROG-BAS46E** — KW Multiprog Basic v4.6 (128 bytes I/O)