APAX-5520CE/KW
PAC with Marvel XScale® CPU

APAX-5620CE/KW
PAC with Marvel XScale® CPU and CAN

NEW

APAX-5520CE/KW

RoHS COMPLIANT 2002/95/EC CE FCC

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Specifications

General

- **Certification**   CE, FCC class A
- **Dimensions (W x H x D)**   30 x 139 x 100 mm
- **Enclosure**   ABS+PC
- **Weight**   210 g
- **Power Consumption**   4.5 W @ 24 V$_{DC}$ (typical)

System Hardware

- **CPU**   Intel XScale PXA270 520 MHz
- **Memory Flash**   32M bytes, SDRAM 64M bytes
- **Battery Backup Memory**   256 KB file system, 256 KB direct access
- **Real-time Clock**   Yes
- **Watchdog Timer**   Yes
- **VGA**   DB15 connector
- **SB Ports**   1 x USB 1.1
- **Storage**   1 x Type II CompactFlash card slot

Software

- **OS Support**   Windows CE
- **Control Software**   C/C++ and .NET library
                               KW Multiprog (development tool)
                               KW ProConOS (runtime kernel)

I/O Expansion

- **Connected I/O Modules**   32 (max.)*
- **Digital Signals**   768 (max.)
- **Analog Signals**   192 (max.)

Communication (Ethernet)

- **LAN Ports**   1 x RJ-45 Port, 10/100 Mbps
- **Offers Modbus/TCP Server and Client APIs**

Communication (Serial)

- **Medium**   1 x Isolated RS-485 (2-wire, isolated)
- **Offers Modbus/RTU Master and Slave APIs**

Environment

- **Operating Temperature**   -10 ~ 55°C (when mounted vertically)
- **Storage Temperature**   -40 ~ 70°C
- **Relative Humidity**   5 ~ 95% (non-condensing)

Ordering Information

- **APAX-5520CE**   PAC with Marvel XScale CPU, WinCE
- **APAX-5520KW**   PAC with Marvel XScale CPU, KW

Accessories

- **APAX-5002**   2-slot Backplane Module
- **APAX-5343E**   Power Supply for APAX Expansion Module

Specifications

General

- **Certification**   CE, FCC class A
- **Dimensions (W x H x D)**   60 x 139 x 100 mm
- **Enclosure**   ABS+PC
- **Weight**   310 g
- **Power Consumption**   5 W @ 24 V$_{DC}$ (typical)
- **Redundancy**   25ms data sync, 20ms changeover time and 14kbytes for data sync

System Hardware

- **CPU**   Marvel XScale PXA270 520 MHz
- **Memory Flash**   32M bytes, SDRAM 64M bytes
- **Battery Backup Memory**   256 KB file system, 256 KB direct access
- **Real-time Clock**   Yes
- **Watchdog Timer**   Yes
- **VGA**   DB15 connector
- **USB Ports**   1 x USB 1.1
- **Storage**   1 x Type II CompactFlash card slot

Software

- **OS Support**   Windows CE
- **Control Software**   C/C++ and .NET library
                               KW Multiprog (development tool), KW ProConOS (runtime kernel)

I/O Expansion

- **Connected I/O Modules**   32 (max.)*
- **Digital Signals**   768 (max.)
- **Analog Signals**   192 (max.)

Communication (Ethernet)

- **LAN**   2 x RJ-45 Port, 10/100 Mbps
- **Offers Modbus/TCP Server and Client APIs**
- **Modbus/TCP under KW**   Server : 64 connections
                               Client : 128 connections

Communication (Serial)

- **Medium**   2 x Isolated RS-485 (2-wire, isolated, max. distance 4,000 ft)
- **Offers Modbus/RTU Master and Slave APIs**

Communication (CAN)

- **Medium**   2 x Isolated CAN
- **Protocol**   CANopen (DS301/302)
- **Speed maximum**   1 Mbit/s

Environment

- **Operating Temperature**   -10 ~ 55°C (when mounted vertically)
- **Storage Temperature**   -40 ~ 70°C
- **Relative Humidity**   5 ~ 95% (non-condensing)

Ordering Information

- **APAX-5620CE**   PAC with Marvel XScale CPU, CAN, WinCE
- **APAX-5620KW**   PAC with Marvel XScale CPU, CAN, KW

Accessories

- **APAX-5002**   2-slot Backplane Module
- **APAX-5343E**   Power Supply for APAX Expansion Module

*APAX DI/O modules can use ID number 0 ~ 31, while AI/O modules and counter modules can only use ID numbers 0 ~ 15

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All product specifications are subject to change without notice