APAX-5620

PAC with Marvel XScale® CPU and CAN

Features

- Onboard Intel XScale® PXA270 520 MHz processor
- 64 MB SDRAM on board, 32 MB Flash
- Expands I/O by connecting with APAX-5000 I/O modules
- 2 x 10/100 Mbps RJ-45 LAN ports and 2 x Isolated RS-485 ports
- 2 x Isolated CAN bus interfaces to support CANopen stack
- 1 x VGA port for display and 1 x USB port
- 1 x CompactFlash slot for data storage
- Windows CE, C/C++, .NET ready platform

RoHS COMPLIANT 2002/95/EC CE FC

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**   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
- **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.)

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

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)
- **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-5620KW**   PAC with Marvel XScale CPU, CAN, KW

Accessories

- **APAX-5002**   2-slot Backplane Module

All product specifications are subject to change without notice.   Last updated: 27-Jun-2018