APAX-6572

Intel® Atom™ D510 1.66 GHz, 2 GB RAM Controller with 3 x LAN, 2 x COM, VGA



Features

- Intel Atom D510 1.66 GHz CPU
- Onboard 2 GB DDR2 DRAM
- Backup system with two controllers (master and slave) to ensure continuous I/O control
- Expands I/O by connecting with APAX-5000 I/O modules
- Supports Windows WES2009 and Windows CE
- Provides C/C++ and .NET library for I/O control and communication
- Supports real-time control tasks under Windows CE through ProConOS
- 2 x RS-232/422/485 (automatic flow control)
- 3 x 10/100/1000 Mbps LAN, 4 x USB 2.0



Introduction

The APAX-6572 is a high performance controller with an Intel Atom D510 CPU. By installing Windows WES2009 or Windows CE operating system, it becomes an application ready platform. It is an ideal open control platform which can be combined with APAX I/O modules, and features flexible I/O expansion, real-time I/O control, and powerful computing and networking capability through various interfaces.

Specifications

General

CertificationCooling SystemCE, FCC Class AFanless

Mounting DIN-rail, Wall mount (panel mount)

Dimensions (W x H x D) 222 x 155 x 140 mm

■ Enclosure Aluminum + SECC, ABS + PC (I/O)

• **Weight** 2.6 kg (APAX-6572)

■ Power Consumption $35~W @ 24~V_{DC}$ (APAX-6572, Typical, Without I/O

modules)

Power Requirement 10 ~ 36 V_{DC} (e.g +24 V @ 1 A) (Min. 24 W), AT

System Hardware

CPU Intel Atom D510 1.66 GHzMemory 2 GB DDR2 DRAM (onboard)

■ Battery Backup SRAM 1 MB

• Watchdog Timer Programmable 7-tier event handler, from 1 ~ 255

seconds for each tier

LED Indicators
Display
Power, CF, LAN (Active, Status), Serial (Tx, Rx)
VGA (DB15 connector), up to 1600 x 1200 @ 85Hz

- Audio Line in. Line out. Mic in

Storage 1 x internal Type I/II CompactFlash card slot

Software

Operating System
Control Software
Windows WES2009, Windows CE
C/C++ and .NET library with utility

KW MultiProg (development), ProConOS (kernel)

• Remote Management Built-in Advantech DiagAnywhere agent

Modbus/ASCII master/slave mode

KW MultiProg (development), ProConOS (kernel)

I/O Expansion

• Accompanied I/O slots 4 x APAX/PCI combo slots

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

Communication

• **Serial Ports** 2 x RS-232/422/485 (supports automatic RS-485 data

flow control)

■ Serial Baud Rate 50 ~ 115.2 kbps

• LAN Ports 3 x RJ-45 Ports, 10/100/1000 Mbps

USB Ports 4 x USB 2.0

Environment

■ Operating Temperature -10 ~ 50°C (when mounted vertically)

• Storage Temperature $-40 \sim 70^{\circ}\text{C}$

Operating Humidity
Storage Humidity
Vibration Protection
Vigration Protection
(Random, operating, 1hr/axis)
(Conforms to IEC 60068-2-64)

Ordering Information

APAX-6572
Intel Atom D510 1.66 GHz. 2 GB RAM Controller

PWR-244 Panel Mount Power Supply

PAC softlogic option (for CTOS only)

SQF-P10S2-8G-ETE
2070012262
2010000007
Suggested CF 8G CF NR, DMA (-40 ~ 85°C)
WinCE image with KW support for APAX-6572
License Agreement for KW ProConOS Embedded

PC-base controller option (for CTOS only)

■ **SQF-P10S2-16G-ETE** Suggested CF 16G CF NR, DMA (-40 ~ 85°C)

2070012263 WES2009 MUI for APAX-6572

*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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