# **APAX-6572**

## Intel<sup>®</sup> Atom<sup>™</sup> 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

- Certification
  - CE, FCC Class A
- Cooling System Fanless DIN-rail, Wall mount (panel mount)
- Mounting
- Dimensions (W x H x D) 222 x 155 x 140 mm
- Enclosure Aluminum + SECC, ABS + PC (I/O)

modules)

- Weight
- Power Consumption
- Power Requirement

#### System Hardware

- CPU

Memory

- 2 GB DDR2 DRAM (onboard) 1 MB
- Battery Backup SRAM
- Watchdog Timer Programmable 7-tier event handler, from 1 ~ 255
  - seconds for each tier
- LED Indicators Power, CF, LAN (Active, Status), Serial (Tx, Rx)

Line in. Line out. Mic in

2.6 kg (APAX-6572)

35 W @ 24  $V_{\mbox{\tiny DC}}$  (APAX-6572, Typical, Without I/O

10 ~ 36 V<sub>DC</sub> (e.g +24 V @ 1 A) (Min. 24 W), AT

1 x internal Type I/II CompactFlash card slot

- VGA (DB15 connector), up to 1600 x 1200 @ 85Hz Display
- Audio
- Storage

#### Software

<ul> <li>Operating System</li> </ul>	Windows WES2009, Windows CE
<ul> <li>Control Software</li> </ul>	C/C++ and .NET library with utility
	KW MultiProg (development), ProConOS (kernel)
<ul> <li>Remote Management</li> </ul>	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
- LAN Ports
- USB Ports
- 3 x RJ-45 Ports, 10/100/1000 Mbps 4 x USB 2.0

50 ~ 115.2 kbps

#### Environment

- Operating Temperature -10 ~ 50°C (when mounted vertically) -40 ~ 70°C
- **Storage Temperature**
- **Operating Humidity** 
  - Storage Humidity 0 ~ 95% (non-condensing) Vibration Protection
    - 2 Grms @ 5 ~ 500 Hz
      - (Random, operating, 1hr/axis) (Conforms to IEC 60068-2-64)

20 ~ 95% (non-condensing)

## **Ordering Information**

- APAX-6572 PWR-244
- Intel Atom D510 1.66 GHz. 2 GB RAM Controller Panel Mount Power Supply

#### PAC softlogic option (for CTOS only)

- SQF-P10S2-8G-ETE Suggested CF 8G CF NR. DMA (-40 ~ 85°C)
  - 2070012262 WinCE image with KW support for APAX-6572 201000007 License Agreement for KW ProConOS Embedded

### PC-base controller option (for CTOS only)

- Suggested CF 16G CF NR, DMA (-40 ~ 85°C) SQF-P10S2-16G-ETE WES2009 MUI for APAX-6572
- 2070012263

\*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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