

APAX-5570/5571

PACs with
Intel® Celeron® M CPU



Features

- Intel® Celeron® M 1 GHz or 1.5 GHz CPU processor
- Expands I/O by connecting with APAX-5000 I/O modules
- Provides complete C/C++ and .NET libraries for I/O control and communication
- Supports real-time control by KW IEC 61131-3 SoftLogic programming
- 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 ports
- Supports Windows WES2009 and Windows CE .NET
- Combine with compact controller (for example, APAX-5520KW) to deliver dual CPU architecture
- SD card slot for data logging

Introduction

APAX-5570/5571 is a controller with high performance Intel Celeron M grade CPU. By installing Windows WES2009 or Windows CE operating system makes APAX-5570/5571 a ready application platform to shorten development time. Connecting with other APAX-5000 I/O modules, APAX-5570/5571 can become a complete control system. Through C/C++ and .NET class libraries or KW SoftLogic programming tool for the I/O modules, developers can build applications in a short amount of time.

Specifications

General

- **Certifications** CE, FCC class A
- **Cooling System** APAX-5570: Fanless, heatsink only
APAX-5571: Heatsink with fan
- **Mounting** DIN-rail, wall mount (panel mount)
- **Dimensions (W x H x D)** 270 x 142 x 126 mm
- **Enclosure** ABS+PC
- **Weight** APAX-5570: 2.42 kg
APAX-5571: 2.46 kg
- **Power Consumption (Typical, without inserted module)** APAX-5570: 30 W @ 24 V_{DC}
APAX-5571: 45 W @ 24 V_{DC}
- **Power Input** 18 ~ 30 V_{DC} (Dual Power Input)
- **Power Reversal** Yes
- **Real-time Clock** Yes
- **Watchdog Timer** Yes

System Hardware

- **CPU** APAX-5570: Intel Celeron M 1 GHz (non-cache)
APAX-5571: Intel Celeron M 1.5 GHz (1 MB L2 cache)
- **System Chipset** Intel 915 GME
- **Memory** 512 MB DDR2 DRAM on board (Dual channel mode)
- **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 (SD card size: up to 16 GB)
- **Reset Button** Yes

Software

- **OS Support** Windows WES2009, 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** 2048 (max.)
- **Analog Signals** 512 (max.)

Communication

- **Serial Ports** 1 x RS-232, 1 x Isolated RS-422/485
- **Serial Port Isolation** 2500 V_{DC} (RS-422/485 only)
- **Serial Baud Rate** RS-232: 50 bps ~ 115.2 kbps
RS-422/485: 50 ~ 230400 bps
- **LAN Ports** 2 x RJ-45 Ports, 10/100/1000 Mbps (Intel 82574L)
(supports teaming function)
- **USB Ports** 4 x USB 2.0

Environment

- **Operating Temperature** -10 ~ 55° C (when mounted vertically)
- **Storage Temperature** -40 ~ 70° C
- **Relative Humidity** 5 ~ 95% (non-condensing)
- **Shock Protection** 30 G @ wall mount, half sine, 11 ms
(Confirms to IEC 60068-2-27)
- **Vibration Protection** 2 Grms @ 5 ~ 500 Hz (Random, operating, 1 hr/axis)
2 G @ 5 ~ 500 Hz (Sine, non-operating, 1 hr/axis)
(Confirms to IEC 60068-2-64 and IEC 60068-2-6)

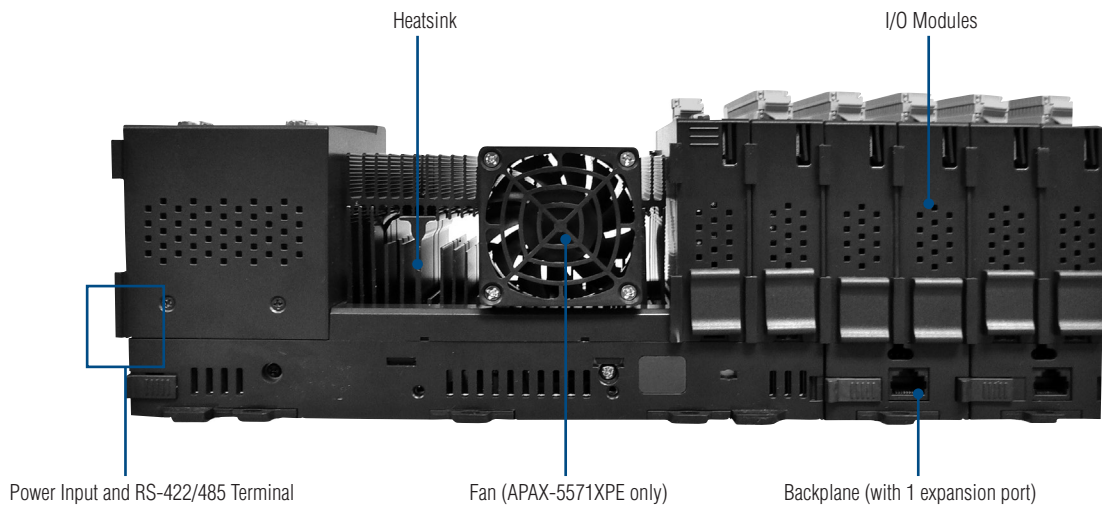
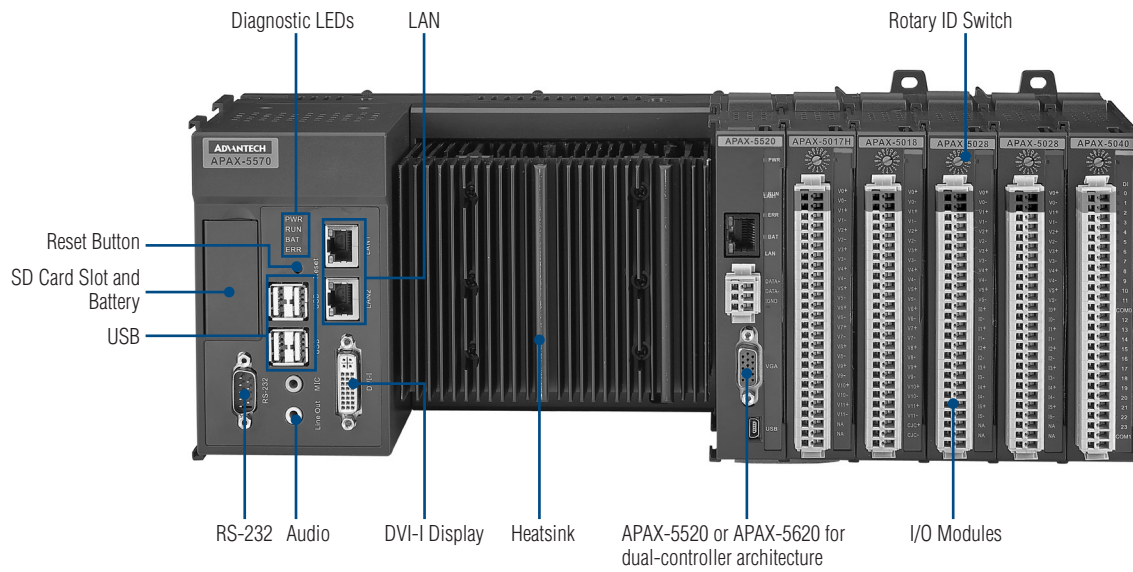
Ordering Information

- **APAX-5570XPE-AE** PAC with Intel Celeron M 1 GHz
- **APAX-5571XPE-AE** PAC with Intel Celeron M 1.5 GHz

Accessories

- **APAX-5343-AE** Power Supply for APAX-5570 Series

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



Dimensions

Unit: mm

