

APAX-5580

Intel® Core™ i7/i3/Celeron® Control IPC
w/ 2 x GbE, 2 x mPCIe, VGA

NEW



Features

- 4th generation Intel® Core™ i7/i3/Celeron processors up to 1.7 GHz with 4GB/8GB DDR3L memory
- 2 x GbE, 4 x USB 2.0/3.0, 1 x RS-232 /422/485, 1 x VGA, Audio
- Dual power input and UPS support
- Compact with fanless design
- Supports Fieldbus protocol by iDoor technology
- 3G/GPS/GPRS/Wi-Fi communication by mPCIe
- Chassis grounding protection
- LAN redundancy (teaming)
- Fault-protected RS-485 transceivers with extended common-mode range
- One button system recovery
- 10 year lifetime RTC battery



ADVANTECH iAutomation
Premier Partner

Introduction

Advantech's APAX-5580 is a powerful Control IPC with an Intel Core i7/i3/Celeron CPU. It is the ideal open control platform to be combined with APAX I/O modules, and features flexible I/O expansion, real-time I/O control, network capability through various interfaces, and support dual power input for robust power system. It also has a built-in standard mini PCI express interface for wireless communication and Advantech's iDoor technology. The APAX-5580 is the best solution for data gateway, concentrator and data server applications, its seamless integration with I/O can save costs and fulfill a diverse range of automation projects.

Specifications

General

- Certification** CE, FCC, UL
- Dimensions (W X H X D)** 117 x 148.5 x 106 mm
- Form Factor** Regular size
- Enclosure** Aluminum housing
- Mounting** DIN-rail, Wall mount
- Weight (Net)** 1.8 kg (4.0 lbs)
- Power Requirement** 24 V_{DC} ± 20%
- Power Consumption** 28 W (Typical), 72 W (Max)
- OS Support** Microsoft® Windows 7/8, Linux Kernel 3.X

System Hardware

- BIOS** AMI UEFI 128Mbit Flash BIOS
- Watchdog Timer** Programmable 256 levels timer interval, from 1 to 255 sec
- Processor** Intel® Core™ i7-4650U ULT 1.7GHz Haswell Dual Core, 4MB L2
Intel® Core™ i3-4010U ULT 1.7GHz Haswell Dual Core, 3MB L2
Intel® Celeron 2980U ULT 1.6GHz Haswell Dual Core, 2MB L2
- System Chip** Integrated Intel 8 series chipset
- Memory** On-board 4GB (8GB optional)
- Graphics Engine** Intel® HD graphics 5000/4400
- Ethernet** Intel® i210-IT GbE, 802.1Qav, IEEE1588/802.1AS, 802.3az
Intel® i218-LM GbE, Intel® AMT, IEEE1588/802.1AS, 802.3az
- LED Indicators** LEDs for power, battery, LAN (Active, Status), Tx/Rx and HDD
- Storage** 1 x mSATA, 1 x SD, 1 x SD (for OS backup)
- Expansion** 1 x Full-size mPCIe slot, 1 x Half-size mPCIe slot, 1 x mPCIe slot

I/O Interfaces

- Serial Ports** 1 x RS-232/422/485, DB9, 50 ~ 115.2kbps
- LAN Ports** 2 x RJ45, 10/100/1000 Mbps IEEE 802.3u 1000BASE-T Fast Ethernet
- USB Ports** 4 x USB ports (2 x USB 2.0, 2 x USB 3.0 compliant)
1 x internal USB
- Display** 1 x VGA, supports 1920 X 1080 @ 60 Hz 24 bpp
- Audio** Line-out
- Power Connector** Dual power input and UPS support
- Grounding Protection** Chassis grounding

Environment

- Operating Temperature** -10 ~ 60°C (-4 ~ 140°F) @ 5 ~ 85% RH with 0.7m/s airflow
- Storage Temperature** -40 ~ 85°C (-40 ~ 185°F)
- Relative Humidity** 10 ~ 95% RH @ 40°C, non-condensing
- Shock Protection** Operating, IEC 60068-2-27, 50G, half sine, 11 ms
- Vibration Protection** Operating, IEC 60068-2-64, 2 Grms, random, 5 ~ 500 Hz, 1hr/axis (mSATA)

Application Software

	<p>Version : V3 CODESYS is the world lead PC-based control software which support IEC 61131-3 and real-time fieldbus, such as EtherCAT, PROFINET, Ethernet/IP and Modbus. Also it integrates the local and remote visualization function within one software, it can help to short the time and cost.</p>
	<p>Version : V7.1 or above WebAccess, as the core of Advantech's IoT solution, is full web browser-based software package for HMI and SCADA software. All HMI and SCADA software features including: Animated Graphics Displays, Real-time Data, Control, Trends, Alarms and Logs, are available in a standard web browser. WebAccess is built around the latest internet technologies. With its open architecture, vertical domain applications can easily be integrated.</p>

Vertrieb durch

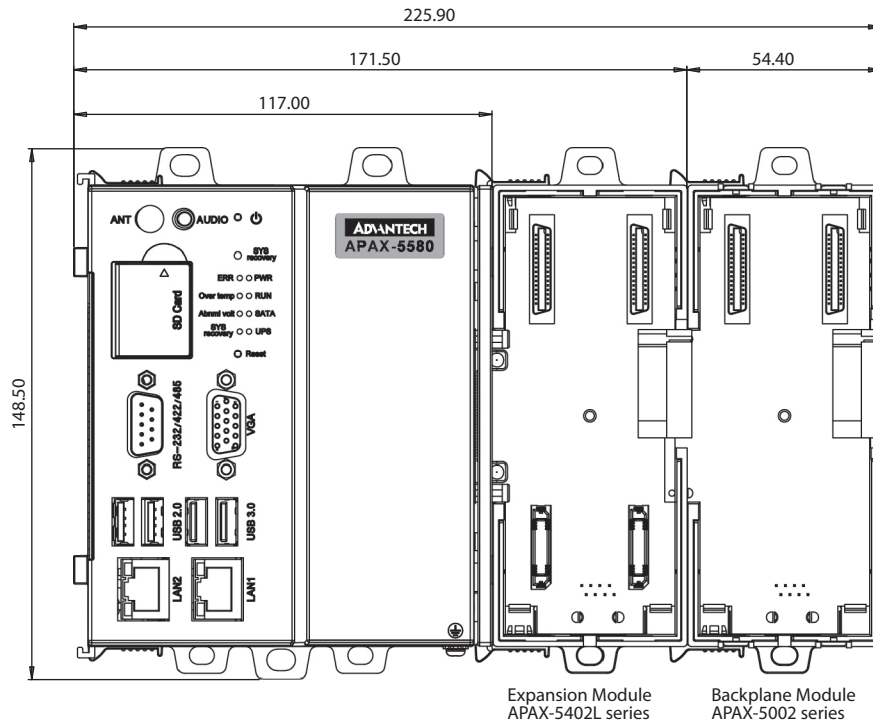


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Dimensions

Unit: mm



Ordering Information

- **APAX-5580-4C3AE** Intel Celeron 1.6 GHz with 4 GB memory, no external expansion slot
- **APAX-5580-433AE** Intel Core i3 1.7 GHz with 4 GB memory, no external expansion slot
- **APAX-5580-474AE** Intel Core i7 1.7 GHz with 8 GB memory, no external expansion slot

Accessories

- **APAX-5343** 72W, 115/230 V_{AC} Power Supply for APAX-5580 (Support Dual Power)
- **PWR-244-AE** 96W AC to DC power adapter
- **1702002600** Power Cable US Plug 1.8 M
- **1702002605** Power Cable EU Plug 1.8 M
- **1702031801** Power Cable UK Plug 1.8 M
- **1700000596** Power Cable China/Australia Plug 1.8
- **SQF-SMSM4-XG-S9E** SQFlash 820 series mSATA MLC 16/32/64/128G (-40 ~ 85°C)

iDoor Modules for APAX-5435

- **PCM-24R2PE-AE** Intel i350, GbE, PoE IEEE 802.3af, PD, RJ45 x 2
- **PCM-2300MR-AE** MR4A16B, 2MByte
- **PCM-26D2CA-AE** SJA1000 CANBus, CANopen, DB9 x 1
- **PCM-24S2WF-AE** 802.11 a/b/g/n 2T2R w/ BT4.0, Atheros AR9462
- **PCM-24S33G-AE** 6-band HSPA Cellular Module, SIM holder+GPS
- **PCM-26R2PN-MAE** HiIscher netX100 FieldBus, PROFINET, RJ45 x2
- **PCM-26R2EC-MAE** HiIscher netX100 FieldBus, ETHERCAT, RJ45 x2

Expansion Modules

- **APAX-5402-E2A0AE** 2 expansion slots to support APAX-5490, APAX-5435, APAX-5430
- **APAX-5402L-E2A2AE** 2 expansion slots with APAX bus (EtherIO)
- **APAX-5490-IP4AE** 4x RS-232/422/485 communication module
- **APAX-5435** APAX iDoor expansion module
- **APAX-5430** APAX SATA interface module

Embedded OS & Automation Software

- **2070015332** WES7P X64 Eng. for 5580
- **2070015335** WES7P X64 MUI. for 5580
- **2070013654** WES7P X86 ENG. for 5580
- **2070013656** WES7P X86 MUI. for 5580
- **968LS3SS02** CODESYS V3 RTE
- **968LS3SS03** CODESYS V3 RTE + TV*
- **968LS3SS05** CODESYS V3 RTE + TV* and WV**
- **968LS3SS12** CODESYS V3 RTE SM
- **968LS3SS13** CODESYS V3 RTE SM +TV
- **968LS3SS15** CODESYS V3 RTE SM +TV and WV
- **968LS3SS08** CODESYS V3 RTE SM CNC
- **968LS3SS09** CODESYS V3 RTE SM CNC +TV
- **968LS3SS11** CODESYS V3 RTE SM CNC +TV and WV

*TV: Target Visualization

**WV: Web Visualization