

# Advantech Control Cabinet PC

Designed for Machine Construction and  
Plant Engineering Applications



- Introduction
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- Intelligent Software
- Selection Guide



**ADVANTECH**

*Enabling an Intelligent Planet*

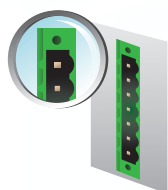
[www.advantech.com](http://www.advantech.com)

# Advantech Control Cabinet PC

## Wide Range of Product Form-factors for Different Mounting Scenarios of Cabinet Applications

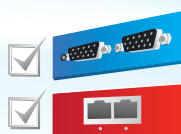
Advantech's UNO-1000/3000 series of Embedded Control Cabinet PCs are fanless with high performance, multiple extensions, and ruggedized chassis with an embedded operating system (Windows CE, Windows XPE, Linux-Embedded). With iDoor Technology which supports automation feature extensions such as Fieldbus communication, Wi-Fi/3G, and Digital / Analog I/O. Versatile Mounting space DIN-Rail Mount, Wall Mount, Book Mount and Panel mount with easy installation indicated market segments. In terms of the type of mounting, with their Control Cabinet PC, they are suitable for IoT gateway, motion and vision applications. The design meets Class 1 Div. 2 & ATEX Certification for harsh environment applications.

### Features & Benefits



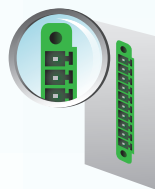
#### Dual Power Input

Dual power input with wide range operating voltage is a fail-safe mechanism to reduce working unit maintaining down time by alternative power input source. And remote power on assists working units go back online from outside of the cabinet.



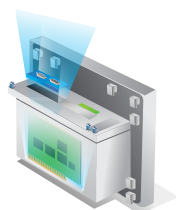
#### Dual iDoor Expansion

Advantech's iDoor technology provides simple, flexible, and reliable expansion in high density systems using versatile color identification and multiple functions.



#### Built-in Digital I/O

Built-in DI/DO for simple I/O control, status detection, lighting control and event triggering in order to save extra cost and devices.



#### Multiple Expansion

UNO supports latest range of expansion interfaces including PCIe for high density I/O, iDoor for fieldbus modules, PCI for motion cards with easy installation captive thumb screws.



#### Dual Digital Display

Flexible display options provide resolutions of up to 4K/2K and provide excellent image quality.



#### Enclosure Mount (UNO-3400)

Compact outside heatsink mounts through a corresponding cut-out in the cabinet or enclosure panel which integrated seals represent high performance as IP67.



#### C1D2/ATEX Certification

Meets and exists in hardly environment and applicable to operation in safety as Oil & Gas industry.

**UNO-3200 Series**



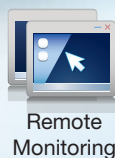
**UNO-1000 Series**



**UNO-3300 Series**



**UNO-3400 Series**



Remote  
Monitoring



Remote On/Off,  
KVM



System  
Configuration



Real-time  
Response



System  
Recovery

## Easy Maintenance

### Captive Thumb Screw

Operators can work efficiently with captive thumb screws as a superior tool to strengthen swapping HDD, CFast & PCI/PCl and for maintaining storage and expansion devices.



### Hot-swap RTC Battery

Removable RTC battery saves time and cost by avoiding disassembling the working unit and shutting down the whole operation.



### Hot-swappable

Hot-swap HDD/S...  
deploy software d...  
control data easily...  
working units with





## Intelligent Software

### WebAccess

Advantech WebAccess is a 100% web browser-based software package for HMI and SCADA with private cloud software architecture. All the features found in conventional HMI and SCADA software including Animated Graphics Displays, Real-time Data, Control, Trends, Alarms and Logs, are available in an standard web browser. WebAccess is built around the latest internet technologies.



### SUSIAccess Remote Device Management

### SUSIAccess Remote Device Management

SUSIAccess is an innovative remote management and cloud-based software preloaded in all Advantech embedded solutions, allowing the efficient and centralized remote monitoring and management of embedded devices in real-time, device health status, system configuration, system protection, and recovery & backup. SUSIAccess targets the needs of creating a more intelligent and interconnected embedded computing solution.

### Panel Express

PanelExpress is a Windows based HMI runtime software, it enables you to utilize the resources of a PC such as computation power, multimedia and bigger screen to realize a high-end sophisticated HMI.

**PANEL EXPRESS**  
Designed for Convenience

## Versatile Mounting with Easy Installation



### DIN-Rail Mount

UNO-1000 series can be painlessly installed on the rail with the sophisticated din-rail kit at the rear and R-angle design at the front.



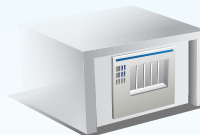
### Wall Mount

Easy pull-out operation is extremely convenient that advantage is suitable for all but the heavier installations.



### Book Mount

The UNO-3300 offers an open and universal automation solution, saves space and allows quick installation in a control cabinet.



### Panel Mount

The UNO-3400 series are designed for easier and quick installation in control cabinets. As UNO-3400 which has the Placing-and-Click snap connector which has further considered users' activity and then simplifies the installation procedures.

### Portable Storage

SD let operators  
data or collect  
y when maintaining  
out interruptions.

# Selection Guide



Model Name	UNO-1252G	UNO-1372G	UNO-1483G	UNO-3283G	UNO-3382G/3384G	UNO-3483G
CPU	Intel® Quark 400 MHz	Intel® Atom™ E3845 1.91GHz	Intel® 4th Gen. Core™ i3-4010U 1.7GHz	Intel® Core™ i CPU	Intel® Core™ i7-4650U 1.7Hz	Intel® Core™ i7-3612QE
Onboard RAM	256MB DDR3 SDRAM	4GB DDR3L SDRAM	8GB DDR3L SDRAM	8GB DDR3L SDRAM	8GB DDR3L SDRAM	8GB SO-DIMM DDR3/DDR3L
Battery-Backup SRAM	-	-	-	-	On board MRAM 512K	-
Display	-	HDMI, VGA	DP, VGA	DVI, HDMI	DVI, DP (disabled when attached to display module)	VGA, HDMI
Audio	-	Line-out	Line-out	Mic in, Line out (pin header)	N/A (built-in Line-in/out/Mic, I/O through iDoor)	Mic in, Line out (pin header)
Serial Ports	1 x RS-232, 1 x RS-485	1 x RS-232, 1 x RS-422/485	1 x RS-232, 2 x RS-422/485	2 x RS-232/422/485 with DB9 connection	RS-232/422/485 x 1 (isolation)	1 x RS-232, 1 x RS-232/422/485 with DB9 connection (pin header)
Ethernet Ports	2 x 10/100 Base-T	3 x 10/100/1000 Base-T	4 x 10/100/1000 Base-T	2 x 10/100/1000 Base-T RJ-45 (support IEEE1588)	2 x 10/100/1000 Base-T RJ-45 (support IEEE1588)	2 x 10/100/1000 Base-T RJ-45 (support IEEE1588)
USB Ports	1 x USB 2.0 1 x USB 2.0 client	2 x USB 2.0 1 x USB 3.0	2 x USB 2.0 2 x USB 3.0	2 x USB 2.0 4 x USB 3.0	2 x USB 2.0 2 x USB 3.0	2 x USB 2.0 2 x USB 3.0
PCIe/PCI Expansion	2 x Mini PCIe	2 x Mini PCIe	1 x PCIe x 1 2 x Mini PCIe	1 x PCIe x 16, 2 x PCI	UNO-3382G: 2 x Mini PCIe UNO-3384G: 2 x Mini PCIe, 2 x PCI/PCIe (2 x PCI, 1 x PCIe x1+1 x PCIe x4, 1 x PCI + 1 x PCIe x4)	1 x PCIe x 4, 3 x Mini PCIe (2 x full, 1 x half)
Digital I/O	4-ch DI, 4-ch DO	4-ch DI, 4-ch DO	4-ch DI, 4-ch DO	-	-	-
CFast Slots	-	-	-	CFast x 1	CFast x 1	-
2.5" HDD Expansion	-	1 x SATA 6Gb/s	1 x SATA 6Gb/s	Two built-in 2.5" SATA HDD brackets with support for RAID 0/1	Two built-in 2.5" SATA HDD brackets with support for RAID 0/1	Two built-in 2.5" SATA HDD brackets with support for RAID 0/1
Operating Systems	Linux	Windows 7/8, WES7/WE8S, Linux	Windows 7/8, WES7/WE8S, Linux	WinXP, Win7/8, WES7/8, Win8, WES, Linux	Linux, Win 7, WES 7, Win 8, Win Emb 8.1 Industry	WinXP, Win7/8, WES7/8, Win8, WES, Linux
Mounting	DIN-rail Mount	DIN-rail/Wall Mount	DIN-rail/Wall Mount	Wall, Stand, Panel Mount	Book Mount	Enclosure Mount
Power Input Range	12/24V <sub>DC</sub> ± 15%	12/24V <sub>DC</sub> ± 20%	12/24V <sub>DC</sub> ± 20%	12/24V <sub>DC</sub> ± 20%	24V <sub>DC</sub> ± 20%	12/24V <sub>DC</sub> ± 20%
Operating Temperature	-20 ~ 60°C (-4 ~ 140°F)	-20 ~ 60°C (-4 ~ 140°F)	-20 ~ 60°C (-4 ~ 140°F)	-20 ~ 60°C (-4 ~ 140°F)	-20 ~ 60°C (-4 ~ 140°F)	-20 ~ 60°C (-4 ~ 140°F)
Power Consumption Typical	6W	24W	41W	50W	45W	50W
Power Requirement	12W, 24V <sub>DC</sub> @ 0.5A	36W, 24V <sub>DC</sub> @ 1.5A	60W, 24V <sub>DC</sub> @ 2.5A	12V/24V <sub>DC</sub> @ 5A	24V <sub>DC</sub> @ 4.5A	12V/24V <sub>DC</sub> @ 4A
Dimensions (W x D x H)	70 x 90 x 100 mm (2.76" x 3.54" x 3.94")	85 x 139 x 152 mm (3.3" x 5.5" x 6.0")	106 x 139 x 198 mm (4.2" x 5.8" x 7.8")	305 x 238 x 225 mm (120.1" x 93.7" x 88.58")	UNO-3382G: 254 x 207 x 65.2 mm (100" x 81.5" x 25.7") UNO-3384G: 254 x 207 x 103.2 mm (100" x 81.5" x 40.6")	305 x 82 x 225 mm (120.1" x 32.3" x 88.6")

## Advantech iDoor Module

Memory/Storage/External I/O

Communication

FieldBus

Digital / Analog I/O

<p><b>PCM-2300MR</b> MR4A16B, MRAM, 2MByte</p>	<p><b>PCM-2300TP</b> TPM Compliant with TCG 1.2</p>	<p><b>PCM-23C1CF</b> CFast, Ejection Type I, CFast x 1</p>	<p><b>PCM-23U1DG</b> Locked USB Slot for USB Dongle, USB x 1</p>
<p><b>PCM-24D2R2/24D2R4</b> OXPcie-952 UART, Isolated RS-232, 422/485, DB9 x 2</p>	<p><b>PCM-24D4R2/24D4R4</b> OXPcie-954 UART, Non-Isolated RS-232, 422/485, DB37 x 1</p>	<p><b>PCM-24R2PE</b> Intel i350, GbE, PoE IEEE 802.3af, PD, RJ45 x 2</p>	<p><b>PCM-24R2GL</b> Intel i350 PCIe, GbE, LAN Mini Card, RJ45 x 2</p>
<p><b>PCM-24R1TP</b> Intel 82574L, GbE, IEEE 1588 PTP, RJ45 x 1</p>	<p><b>PCM-24U2U3</b> USB 3.0 Mini Card, USB x 2</p>	<p><b>PCM-24S2WF</b> 802.11 a/b/g/n 2T2R w/ BT4.0, Atheros AR9462, SMA x 2</p>	<p><b>PCM-24S23G</b> 6-band HSPA Cellular Module, SIM Holder+ GPS, SMA x 2</p>
<p><b>PCM-24S24G</b> LTE Bands, UMTS/HSPA Bands, GPS/GPRS Bands, SMA x 2</p>	<p><b>PCM-26D2CA</b> SJA1000 CANBus, CANOpen, DB9 x 2</p>	<p><b>PCM-26D1PB</b> Hilscher netX100 FieldBus, ProfiBus, DB9 x 1</p>	<p><b>PCM-27D24DI</b> Digital I/O, 16 DI / 8 DO, Isolation, DB37 x 1</p>