Advantech Control Cabinet PC

Designed for Machine Construction and Plant Engineering Applications

ADVANTECH

Enabling an Intelligent Planet
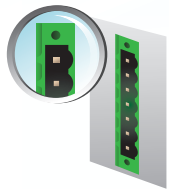
www.advantech.com

Advantech Control Cabinet PC

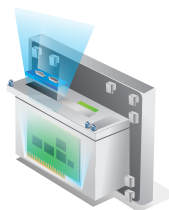## Wide Range of Product Form-factors for Different Mounting Scenarios of Cabinet Applications

Advantech's UNO-1000/3000 series of Embedded Control Cabinet PCs are fanless with high performance, multiple extensions, and ruggedized chassis. With iDoor Technology which supports automation feature extensions such as Fieldbus communication, Wi-Fi/3G, Digital I/O and POE. Versatile Mounting space DIN-Rail Mount, Wall Mount, Enclosure 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.

Features & Benefits

Dual iDoor Expansion

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

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.
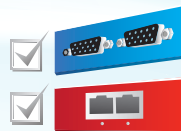
Built-in Digital I/O

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.

IEC-61010 certified

UNO-3382G/ 3384G are evaluated to the UL/ IEC-61010 standard and support book mounting methods which makes them suitable for installing in harsh industrial environments.
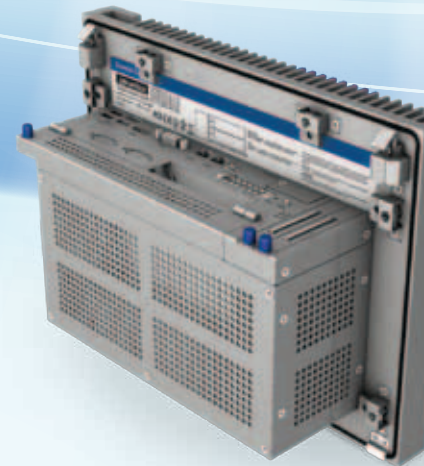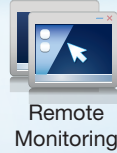
UNO-3200 Series

UNO-1000 Series

Remote
Monitoring

Remote On/Off,
KVM

CPU
System
Configuration

SMS
Real-time
Response

System
Recovery

UNO-3300 Series

UNO-3400 Series

Easy Maintenance

Captive Thumb Screw

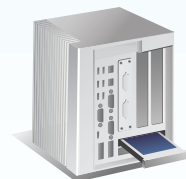Operators can work efficiently with captive thumb screws as a superior tool to strengthen swapping HDD, CFast & PCI/PCIand for maintaining storage and expansion devices.

Hot-swap RTC Battery

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

Hot-swapp

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

Intelligent Software

Advantech WebAccess is a 100% web-based SCADA (Supervisory
Control And Data Acquisition) software and it acts as an IIoT Platform
providing open interfaces for partners to develop IoT applications for different vertical markets.
In addition to traditional SCADA functions, WebAccess has an intelligent dashboard, to provide users with
cross-platform, cross-browser data analysis and user interface using HTML5 technology.
As well as the built-in widgets, WebAccess also provides Widget Builder to allow customers to build their own.

WebAccess/SCADA

WebAccess/HMI

WebAccess/HMI Designer is powerful yet intuitive software to create total
solutions for HMI (Human Machine Interface) products. WebAccess/HMI
Designer is proven in many application fields and is an easily integrated development tool.
WebAccess/HMI Runtime, a part of WebAccess/HMI, guarantees reliability and performance of open platform
because of the minimum system overhead, high communication data rates, sub-second screen switching, and
24/7 operation.

Remote Device Management

WISE-Pass/RMM 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. WISE-Pass/RMM targets the needs of
creating a more intelligent and interconnected embedded computing solution.

WISE-PaaS/RMM

System
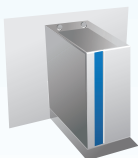Protection

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
convinent 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.
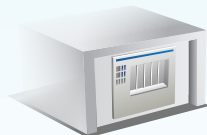
Enclosure Mount

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.

able Storage

SD let operators
ata or collect
when maintaining
out interruptions.

Selection Guide

Model Name	UNO-1251G	UNO-1252G	UNO-1372G	UNO-1483G	UNO-3283G	UNO-3382G/3384G	UNO-3483G
CPU	ARM Coretex A8, 600MHz	Intel® Quark 400 MHz	Intel® Atom™ E3845 1.91GHz	Intel® Core™ i3-4010U 1.7GHz	Intel® Core™ i7-6822EQ 2.0GHz	Intel® Core™ i7-4650U 1.7Hz	Intel® Core™ i7-3612QE
Onboard RAM	256MB DDR2 SDRAM	256MB DDR3 SDRAM	4GB DDR3L SO-DIMM	8GB DDR3L SO-DIMM	8GB DDR4 SO-DIMM	8GB DDR3L SO-DIMM	8GB DDR3L SO-DIMM
Battery-Backup SRAM	-	-	-	-	-	On board MRAM 512K	-
Display	-	-	HDMI, VGA	DP, VGA	DVI-I, HDMI	HDMI, DP	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, 1x RS-422/485, 1 x RS-485	1 x RS-232(console port), 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, 2 x RS-232 (pin header)	1 x RS-232/422/485	1 x RS-232, 1 x RS-422/485 (pin header)
Ethernet Ports	2 x 10/100 Mbps Base-T	2 x 10/100 Mbps Base-T	3 x 10/100/1000 Mbps Base-T	4 x 10/100/1000 Mbps Base-T	2 x 10/100/1000 Mbps Base-T	2 x 10/100/1000 Mbps Base-T	2 x 10/100/1000 Mbps Base-T
USB Ports	1 x USB 2.0	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	6 x USB3.0	2 x USB 2.0 2 x USB 3.0	2 x USB 2.0 2 x USB 3.0
PCIe/PCI Expansion	1 x Mini PCIe	2 x Mini PCIe	2 x Mini PCIe	1 x PCIe x 1 2 x Mini PCIe	1 x PCIex16, 1 x PCI 2 x Mini PCIe	UNO-3382G: 2 x Mini PCIe UNO-3384G: 2 x Mini PCIe, 1 x PCI + 1 x PCIex 4)	1 x PCIex 4, 3 x Mini PCIe
Digital I/O	-	4-ch DI, 4-ch DO	4-ch DI, 4-ch DO	4-ch DI, 4-ch DO	-	-	-
Micro SD	1 x 1G MicroSD card 1 x MicroSD card slot	1 x 1G MicroSD card	-	-	-	-	-
CFast Slots	-	-	-	-	CFast x 1	CFast x 1	-
2.5" HDD Expansion	-	-	1 x SATA HDD	1 x SATA HDD	2 x SATA HDD, support RAID 0/1	2 x SATA HDD, support RAID 0/1	2 x SATA HDD, support RAID 0/1
Operating Systems	Windows Embedded Compact7(WEC7), Embedded Linux	Yocto Linux	Win7/8/10, WES7, Win10 Ent. LTSB, AdvLinux	Win7/8/10, WES7, Win10 Ent. LTSB, AdvLinux	Win7/8/10, WES7, Win10 Ent. LTSB, AdvLinux	Win7/8/10, WES7, Win10 Ent. LTSB, AdvLinux	Win7/8, WES7, AdvLinux
Mounting	DIN-rail Mount	DIN-rail Mount	DIN-rail/Wall Mount	DIN-rail/Wall Mount	Wall, Stand, Enclosure Mount	Book Mount	Enclosure Mount
Power Input Range	10-36V$_{DC}$	9~36V$_{DC}$	10~36V$_{DC}$	12/24V$_{DC}$ ± 20%	10~36V$_{DC}$	24V$_{DC}$ ± 20%	12/24V$_{DC}$ ± 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)	0 ~ 55°C (32 ~ 131°F)	-20 ~ 60°C (-4 ~ 140°F)
Power Consumption Typical	5.3W	10W	24W	41W	30W	45W	50W
Dimensions (W x D x H)	50 x 90 x 100 mm (1.97" x 3.54" x 3.94")	63 x 105 x 100 mm (2.48" x 4.13" 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")	142 x 238 x 117 mm (5.6" x 9.3" x 6.9")	UNO-3382G: 65.2 x 254 x 207 mm (2.5" x 10" x 8.15") UNO-3384G: 103.2 x 254 x 207 mm (4.06" x 10" x 8.15")	305 x 82 x 225 mm (12" x 3.2" x 8.9")

Advantech iDoor Module

Memory/Storage/External I/O Communication FieldBus Digital / Analog I/O

PCM-2300MR
MR4A16B, MRAM, 2MByte

PCM-2300TP
TPM Compliant with TCG 1.2

PCM-23C1CF
CFast, Ejection Type I, CFast x 1

PCM-23U1DG
Locked USB Slot for USB Dongle, USB x 1

PCM-24D2R2/24D2R4
OXPCIe-952 UART, Isolated RS-232, 422/485, DB9 x 2

PCM-24D4R2/24D4R4
OXPCIe-954 UART, Non-Isolated RS-232, 422/485, DB37 x 1

PCM-24R2PE
Intel i350, GbE, PoE IEEE 802.3af, PD, RJ45 x 2

PCM-24R2GL
Intel i350 PCIe, GbE, LAN Mini Card, RJ45 x 2

PCM-24R1TP
Intel 82574L, GbE, IEEE 1588 PTP, RJ45 x 1

PCM-24U2U3
USB 3.0 Mini Card, USB x 2

PCM-24S2WF
802.11 a/b/g/n 2T2R w/ BT4.0, Atheros AR9462, SMA x 2

PCM-24S23G
6-band HSPA Cellular Module, SIM Holder+ GPS, SMA x 2

PCM-24S24G
LTE Bands, UMTS/HSPA Bands, GPS/GPRS Bands, SMA x 2

PCM-26D2CA
SJA1000 CANBus, CANOpen, DB9 x 2

PCM-26D1PB
Hilscher netX100 FieldBus, ProfiBus, DB9 x 1

PCM-27D24DI
Digital I/O, 16 DI / 8 DO, Isolation, DB37 x 1

Advantech Innovative Design Concept- Simple, Flexible, Reliable

As a leading provider of Industrial PC, Advantech devoted to innovation product/service development. To be the pioneer in intelligent automation technology, the i-concept represents the intelligent, integrated and intuitive design which covers the innovation of service model, user behavior and cutting-edge technology that opens a new era of industrial automation.

iKey

An integrated intelligent key brings simplified intuitive operation for configuring your automation panel. With a flexible software design, customized functions are easier to carry out.

iDoor

A standardized modular Interface which offers flexible expansion to increase the number of applications and expand system functions through the variety of standardized modular I/Os.

iLink

A Reliable Long Distance Transmission Technology which transfers video signals and touch control over a single Ethernet cable which overcomes interference in harsh environments not only for data connections, but also for a cost effective multiple display solution.

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More Information

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