Advantech Embedded Automation PC

Modular Box Platform for Digitalization in the Industrial IoT



Introduction
Features & Functions
Intelligent Software
Selection Guide







www.advantech.com

Connecting Machine and Process of Smart Fact

Modular Box Platform Satisfies all Industrial Needs

In the Industrial 4.0 era, fanless and ruggedized properties are not the only criteria for Industrial Embedded Computers. Advantech's Industrial Embedded Computers offer flexible and expandable features and our new UNO-2000 series are based on a new modular form factor. Integrated with iDoor expansibility, the new UNO-2000 series is adapted for Embedded

Automation applications. UNO-2271G is the world smallest embedded computer being the same size as a standard SSD, and the optimized performance of UNO-2484G is only 7.9" with TPM2.0 for Cyber Security. They both easily integrate with Advantech WebAccess which helps erase the gap between IT and OT.

	UNO-2271G	70 mm			
	100 mm		105 mm		
	UNO-2372G		14	140 m	
	150 mm	UNO-	2484G		
200 mm					

The new UNO-2000 series also provide the time to market customized service, modularized design can perform it for vertical market. With modular design, customers can expand more functionality and create more possibilities in different markets and applications by more flexible and easier configuration way to step forward into Industry4.0 era.

Bridging the Gap Between IT and OT

WebAccess/HMI

WebAccess/HMI is a runtime software that includes various HMI control interface, visualizations, and applications. It supports more than 450 types of PLC & I/O protocols which helps solve the communication gap between OT & IT technologies.











Data Collection

No Limitation Internal Points

450 Protocols

Supports 16 communication links

Over 50s Screen Objects

WebAccess/SCADA

WebAccess/SCADA is a 100% web browser-based HMI/SCADA software. All the features found in conventional HMI and SCADA software, including Animated Graphics Displays, Real-time Data, Control, Trends, and Alarms and Logs, are available in an standard web browser. WebAccess/SCADA enables central database development, remote monitoring, and an IoT control architecture.







Universal UNO

- Rugged & performance housing design
- Easy configuration with extendable functionality
- Suitable for industrial edge intelligent gateways
- 1/2/4 iDOOR expansion interface with 30+ iDOOR multifunction module selections
- Industrial wide temperature capability



New Innovative Design



Modular Platform Design

Universal (general application): Domain (vertical application): Customized (by project base), UNO board to board connectors are suitable for all factory applications.



Time-to-Market Customization

Easy to configure and modular design enable shorter assembly time and faster time-to-market.



Wide Range PWR Input 10~36V

Wide range power input ensures normal operation in unstable power environments.



Dual Swappable SSD/HDD

Dual storage supports RAID 0/1 and external removable drive design makes for easier maintenance for data switching.

Rubber Stopper Design

design to prevent screw loss during

with Captive Screw Modular box uses captive screw



iDoor Expansion with 100+ Combinations

More than 100+ combinations of iDoor technology enable UNO to fulfill every kind of vertical application scenario.



Cable-less Design

Cable-less design for internal space saving, enhanced MTBF, reliability of signal transition, and cost efficiency for assembly.



Lockable I/O Design

assembly and rubber stoppers

provide better system stability.

Full lockable I/O ensures the system works properly and safely in high vibration environments.



Friendly Assembly Design

User friendly screw design make assembly easier for 2nd stack and iDoor modules.



Versatile Mounting

Variety of mounting methods -VESA, DIN rail, Pole, and Stand mount.

Domain UNO

- Rugged & domain-focused housing design
- Specific industrial domain market application
- Motion/vision FPGA board extension with USB3.0/ GbE and software support
- 4 x HDMI multiple displays for dashboard & signage
- Din-Rail installation for cabinet applications



Customized UNO

- Optimized & rugged performance housing design
- Brand-labeling & customized stack-up housing with specific functionalities (hot-swappable dual storage, unique specific-functions)
- Tool-less maintenance design
- Own built design with FREE dimensions released

Selection Guide

Modular Box Platform Series NEW

Model Name	UNO-2271G	UNO-2372G	UNO-2484G
Optimized UNO	- Martine -		
Form-Factor	Pocket-Size	Small-Size	Regular-Size
CPU	Intel® Atom™ E3815 1.46GHz Processor	Intel® Atom™ E3940 1.6GHz Quad Core	Intel® Core™ i7-6600U ULT 2.6GHz Dual Core Intel® Core™ i5-6300U ULT 2.4GHz Dual Core Intel® Core™ i3-6100U ULT 2.3GHz Dual Core
Onboard RAM	4G DDR3L RAM	4G DDR3L SDRAM	8G DDR4 SDRAM
Display	1 x HDMI, supports 1920 x 1080 @ 60Hz	HDMI/DP	HDMI/DP
Audio	-	-	LINE-OUT
Serial Ports	-	4 x RS-232/422/485	4 x RS-232/422/485
Ethernet Ports	2 x 10/100/1000Base-T	2 x 10/100/1000Base-T	4 x 10/100/1000Base-T
USB Ports	1 x USB 3.0	4 x USB 3.0	4 x USB3.0
Storage	On board 32G eMMC(Optional mSATA)	1x mSATA/mPCle, 1x SATA	1x mSATA/mPCIe, 2x SATA
Expansion	1 x Full-Size mPCle Slot, PCle 2.0	1 x mPCle/mSATA, 1 x Full-size mPCle slot, (supports SIM card)	1 x mPCle/mSATA Up to 4 mPCle with 2nd layer
Dimension (W x D x H)	100 x 70 x 30 mm	150 x 105 x 35 mm	200 x 140 x 40 mm
Ordering Information	UNO-2271G-E21AE	UNO-2372G-E12AE	UNO-2484G-674AE (i7) UNO-2484G-654AE (i5) UNO-2484G-634AE (i3)
Universal UNO (Optimized UNO with Expansion)		*****	
Expansion	1 x iDoor Expansion 1 x Small IO module (2 ports COM or 3 ports USB2.0)	2 x iDoor Expansion 1 x iDoor Expansion + 1 x Small IO module (2 ports COM or 3 ports USB2.0)	4 x iDoor Expansion 3 x iDoor Expansion + 1 x Small IO module (2 ports COM or 3 ports USB2.0)
Dimension (W x D x H)	100 x 70 x 60 mm	150 x 105 x 65 mm	200 x 140 x 70 mm
Ordering Information	UNO-2271G-E22AE (3 x USB2.0), Stand Mount UNO-2271G-E23AE (2 x COM), DIN RAIL Mount	UNO-2372G-E120AE	UNO-2484G-6740AE (i7) UNO-2484G-6540AE (i5) UNO-2484G-6340AE (i3)

• Hot Selling Series







	Model Name	UNO-2272G	UNO-2362G	UNO-2483G/ 2473G
	CPU	Intel Celeron Processor J1900 2.0GHz	AMD G-series T40E 1.0GHz	Intel® Core™ i3-4010U ULT 1.7GHz, Intel® Core™ i7-4650U ULT 1.7GHz, Intel® Atom™ E3845 1.91GHz Intel® Celeron J1900 2.0GHz
	Storage	1 x half-size mSATA (Additional SATA by optional)	1x mSATA, 1x SATA (Optional)	UNO-2483G: 2 x SATA, 1 x mSATA UNO-2473G: 1x SATA, 1 x mSATA
	Ordering Information	UNO-2272G-J2AE	UNO-2362G-T2AE	UNO-2483G-434AE UNO-2483G-474AE UNO-2473G-E3AE UNO-2473G-J3AE

Advantech iDoor Module

Industrial Fieldbus	Smart I/O & Comm.	Communication	Multiple I/O & Peripheral
CANopen, PROFIBUS, PROFINET, EtherCAT, EtherNet/IP, POWERLINK, Sercos III	RS-232, RS-422/485, Digital/Analog I/O, I/O Link	WiFi/Bluetooth, Zigbee, RFID/NFC, GSM/GPRS/3G and 4G LTE	NVRAM, USB, TPM, CFast, GigaLAN, PoE, VGA/DVI, DP, HDMI, Audio, PCIe adapter card
PCM-26D2CA PCM-26R2EC PCM-26R2PN PCM-26R2S3	PCM-27D24DI PCM-24D2R2 PCM-24D2R4 PCM-24D4R4	• PCM-24S34G • PCM-24S2WF • PCM-24S33G	PCM-24R2PE PCM-24R1TP PCM-24U2U3 PCM-23C1CF