

Embedded Automation PC

Sales kit



2018Q1

Global IPC Trend & Market Share

Global industrial PCs revenues by product type in 2015 and 2020

Revenues (\$ million)

Product Type	2015	2020	CAGR 15-20
Box IPC	932.4	1,139.1	4.1%
DIN rail IPC with I/O	104.5	120.2	2.8%
Panel IPC	1,281.5	1,582.5	4.3%
Rackmount IPC	740.7	898.0	3.9%
Industrial IoT gateway	6.1	60.4	58.0%
Thin client	21.2	23.6	2.2%
Industrial display	98.8	114.0	2.9%
Total	3,185.3	3,937.8	4.3%

Data issued: February 2017

Source: IHS

- The global market for industrial PCs is estimated grow from \$3.2 to \$3.9 billion
- Industrial IoT gateways are forecast to grow the fastest of those of all product types

Global market shares for suppliers of industrial PCs in 2014 and 2015 by revenue

Supplier	2014	2015	Change
Advantech	29.0%	32.0%	3.0%
Siemens	9.5%	8.5%	-1.0%
Beckhoff	6.0%	6.0%	0.0%
Kontron	5.5%	5.0%	-0.5%
IEI Technology	3.5%	4.0%	0.5%
American Industrial Systems	3.5%	3.0%	-0.5%
B & R Automation	2.0%	2.0%	0.0%
Others	41.0%	39.5%	-1.5%

- Advantech take 32% market share

Product Category

Embedded Automation PC

Modular Box Platform for Digitalization in the Industrial-IoT

- ▶ Modular Design for flexible expansion and fast time-to-market
- ▶ Promptly customization service versatile usage
- ▶ Scalable features adapter to IoT Era



Optimized UNO

Optimized form factor with max. features
Versatile segment offering can adapt to IoT Era

- UNO-2271G
- UNO-2372G
- UNO-2484G

Universal UNO

Up to 4 iDoor
Expansion diverse applications
Modular design for easy configuration

- UNO-2271G
- UNO-2372G
- UNO-2362G
- UNO-2484G

Customized UNO

Tailormade customization service

- Configurable modular board design
- Advanced mechanism service focus on vertical market
- Hot-swappable storage
- Multiple display

Control Cabinet PC

Ruggedized design for Cabinet/Equipment in Smart Factory

- ▶ Various form factor support multiple mounting method
- ▶ Redundancy design to secure system stability
- ▶ Expandable with comprehensive iDoor, PCIe, PCI



DIN-Rail Mount

Scalable form factor with optimized features

Expandable iDoor for domain market

- UNO-1251G
- UNO-1252G
- UNO-1372G
- UNO-1483G

Wall Mount

Rich expansion with front accessible features
Redundant PWR/Storage to eliminate system down time

- UNO-3283G
- UNO-3285G

Book Mount

Diverse design for specific applications
Specific certification for domain market

- UNO-3382G
- UNO-3384G

Enclosure Mount

- UNO-3483G



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Embedded Box Evolution

Performance & Price Range

Former Gen

Current Gen

New Gen

Performance

Edge Gateway

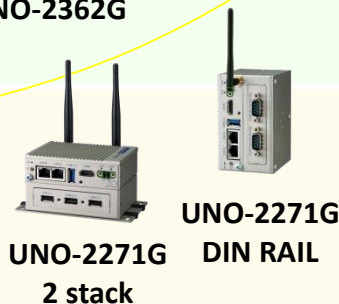
HMI Centric

Powerful UNO
Multi Expansion with
stackable design

Standard Size
Multiple I/O with
optimize design

Palm Size
IIoT Gateway

Pocket Size
The World's Smallest
box – Edge Gateway



**Modular Box
Platform**



Modular Design
for 100+ Combination

Time-to-Market
Customization

Optimized Delivery
Support

Easy Maintenance

Outline Dimension & Feature Range

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Modular Box Platform



Cost Efficient

More than 30%+ features on standard machine are not requested by customer and this caused cost wasted on the function which don't needed



Integrated

It's hard to manage and control many complex PNs on customer side of old models, which may only did a tiny customization also need one new PN and hard to manage



Optimized L/T

All standard optimized models has no extension capability, and all customized on 2nd stack. This fact can enable customer prepare the standard model in very first stage and no need to wait until final spec confirm



Vertical Application

It's limit to customize focused market machines such as external accessible storage on standard models due to limited space and reserved schematic

Advantech provides the smartest Solutions of Modularity

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UNO-2271G

The World's Smallest Industrial Modular Box Platform



WATCH
THIS
VIDEO

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Modular Box Platform (MBP) Vertical Segment

Optimized UNO



Optimized

Universal

Customized



Universal UNO



Customized UNO



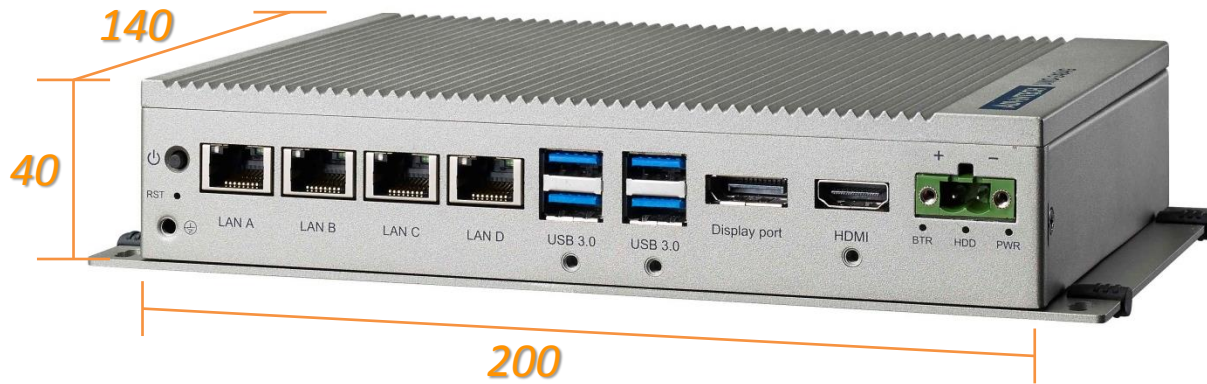
- Easy configuration with extendable diverse functionality
- Suitable for industry edge intelligent gateway
- 4 iDOORs expansion capabilities with 30+ iDOOR multi-function module selection
- Industrial Wide temperature capability

- Optimized & Rugged Performance Housing Design
- Various customized stack-up housing with specific functionalities (Hot-swappable dual storage, Multiple display, DIN-rail mounting form factor, unique specific-function, etc)

Modular Box Platform



Optimized UNO



Optimized Features with Compact Dimension

Cable-less Design with High Stability and Vibration

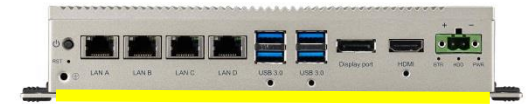
Cost Efficiency and Easy Assembly

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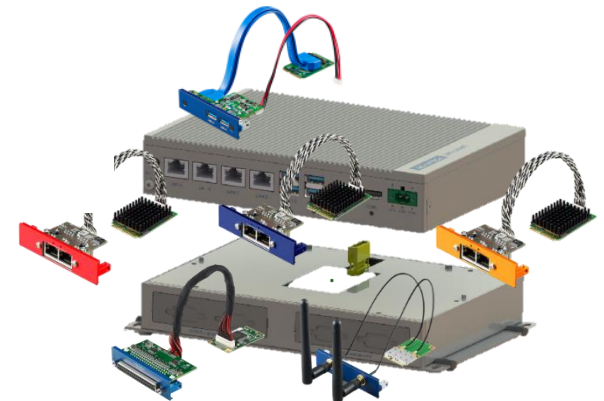
Modular Box Platform

Optimized UNO



Modular Box Platform

Universal UNO



Extension I/O card

100+ Combination with iDOOR Technology

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Modular Box Platform

Universal UNO

Multiple I/O & Peripheral

Industrial Fieldbus

Smart I/O & Communication

Communications



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Modular Box Platform

Customized UNO



Optimized UNO

Hot Swappable Storage with External Access

Multiple display – Add 4 HDMI+USB

Brand-labeling & Unique Features Customized

Customized UNO

UNO-2484G Modular Portfolio

1st stack

Optimized UNO



UNO-2484G-6731AE

UNO-2484G-6531AE

UNO-2484G-6331AE

The fundamental stack with optimized IO & form factor

- Intel Core i7/i5/i3
- 4 x USB, 4 x COM, 4 x LAN, 1 x mPCIe, TPM2.0

2nd stack

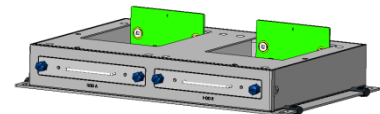
Extension kit



UNO-2484G-EKAE

Extension for iDoor installation

- 3 x mPCIe slots
- 4 x iDoor slot



UNO-2484G-S2AE

External accessible storage

- 2 x HDD/SDD storage bay

Pre-configured SKU

Universal UNO



UNO-2484G-6732AE

UNO-2484G-6532AE

UNO-2484G-6332AE

UNO with iDoor extendibility

- Intel Core i7/i5/i3
- 4 x USB, 4 x COM, 4 x LAN, TPM2.0
- 4 x mPCIe, 4 x iDoor slots



UNO-2484G-6732UAE

UNO-2484G-6532UAE

UNO-2484G-6332UAE

UNO with maximum I/O

- Intel Core i7/i5/i3
- 8 x USB, 8 x COM, 4 x LAN, 1 x mPCIe, TPM2.0

Customized UNO



UNO-2484G-6732H5AE

UNO with multiple display

- Intel Core i7
- 8USB, 4 x COM, 4 x LAN, 5 x HDMI, 1 x DP, TPM2.0

UNO-2484G Smart Factory Applications

Process Visualization

MES/ Dashboard

Thin-client (Digital Signage)

- ✓ Productivity information display



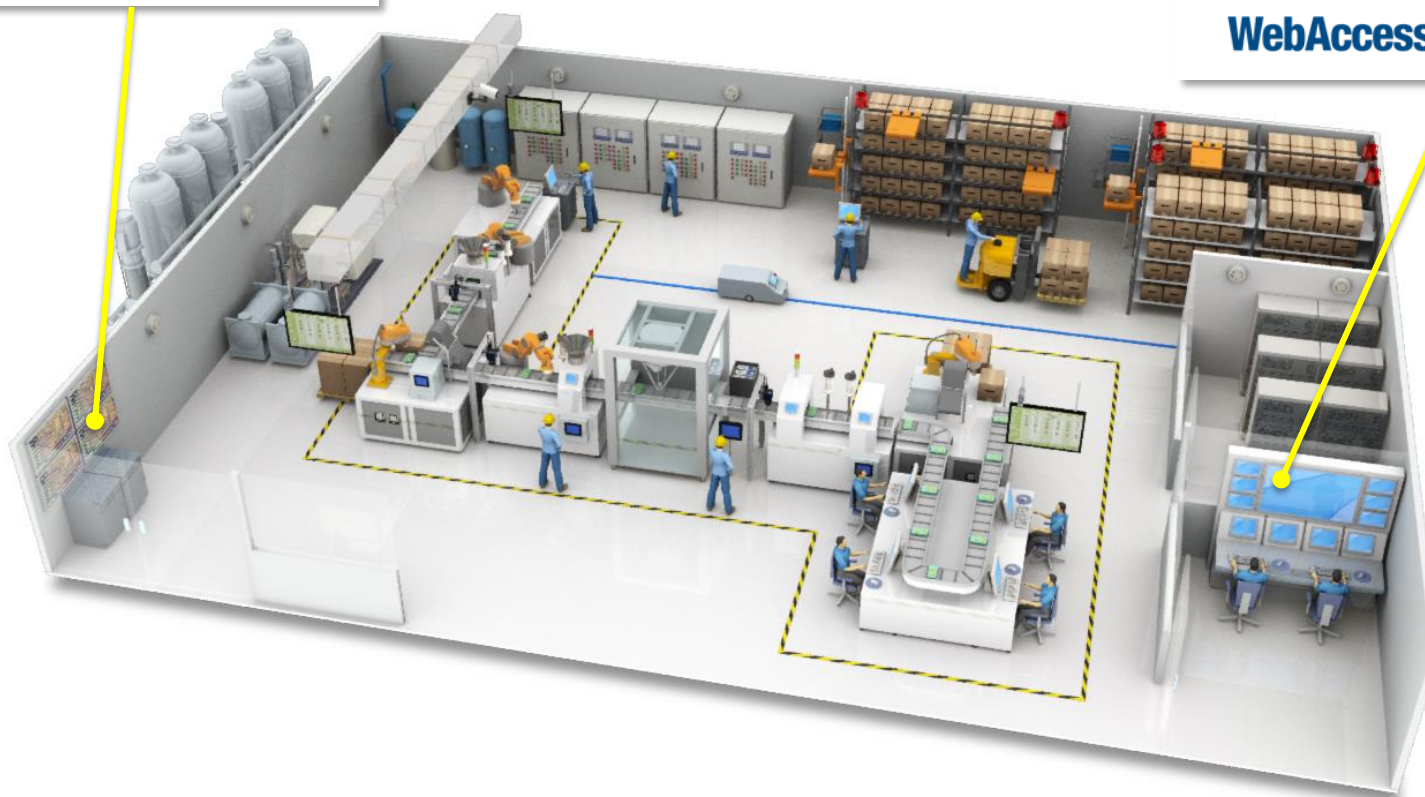
Facility & Environment Management

Central Room Controller

Data Acquisition and Central Management

- ✓ Control room monitoring
- ✓ Data analysis from server

WebAccess/SCADA



Application – License Recognition and Video surveillance system

- **Target Application**

- Car park license recognition and surveillance system

- **System Requirement**

- Multiple LAN for surveillance camera
- High performance power for image processing for license recognition.
- Dual display and HD graphic to show entry license recognition and car part monitoring in high resolution



Multiple Display Application



Windows 10



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UNO-2372G Modular Portfolio

1st stack

Optimized UNO



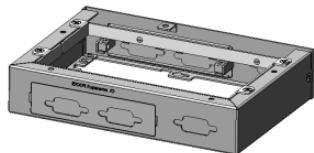
UNO-2372G-E021AE/ UNO-2372G-J021AE

The fundamental stack with optimized IO & form factor

- Intel ATOM E3845/Celeron J1900
- 4 x USB, 4 x COM, 2 x LAN, 2 mPCIe, TPM2.0(UNO-2372G-J)

2nd stack

Extension kit



UNO-2372G-EKAE

Extension for iDoor installation

- 2 x iDoor slot

Pre-configured SKU

Universal UNO



UNO-2372G-E022AE/ UNO-J022AE

UNO with iDoor extendibility

- Intel ATOM E3845
- 4 x USB, 4 x COM, 2 x LAN, 2 mPCIe, TPM2.0 (UNO-2372G-J)
- 2 iDoor slots

Advantech Wireless AGV Solutions

Ideal for Smart Factory and Smart Parking Applications



- **Target Application**
 - AGV for smart factory, logistics & smart parking
- **System Requirement**
 - Small form factor PC with adequate performance to receive commands from the central dispatch system, processing data collected from the anti-collision sensor, 360-degree laser transmitter, and magnetic nail scanner to calculate route
 - iDoor module (PCM-26D2CA) to support CANbus protocols
 - Wifi, 3G, GPS communication capability

UNO-2271G Modular Portfolio

1st stack

Optimized UNO



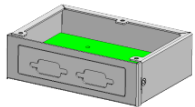
UNO-2271G-E21AE

The fundamental stack with optimized IO & form factor

- Intel ATOM E3815
- 1 x USB3.0, 2 x LAN, 1 x HDMI, 1 x mPCIe/mSATA

2nd stack

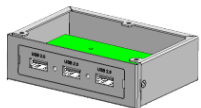
Extension kit



UNO-2271G-EKAE

Extension for iDoor installation

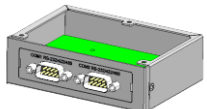
- 1 x iDoor slot



UNO-2271G-U3AE

Extension for 3 USB2.0

- 3 x USB2.0



UNO-2271G-R2AE

Extension for 2 COM

- 2 x COM

Pre-configured SKU

Universal UNO



UNO-2271G-E22AE

UNO with additional USB ports

- Intel ATOM E3815
- 1 x USB3.0, 2 x LAN, 1 x HDMI, 1 x mPCIe/mSATA
- 3 x USB2.0

Customized UNO



UNO-2271G-E23AE

UNO supports DIN-rail mounting form factor with COM ports

- Intel ATOM E3815
- 1 x USB3.0, 2 x LAN, 1 x HDMI, 1 x mPCIe/mSATA
- 2 x COM

Comprehensive Smart Factory Applications

Facility & Environment Management

Sensor Gateway

Remote I/O Data Acquisition

- ✓ Temperature/ flammable gas density/ CO2 monitoring
- ✓ Energy consumption management



MBP Models
UNO-2271G
UNO-2372G

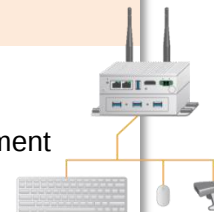
Dispatch & Logistic Management

RFID Gateway

Warehouse Shelf Indication

- ✓ Rapid distribution
- ✓ Material & Inventory management

WebAccess/HMI



MBP Models
UNO-2271G

Process Visualization

Data Gateway

Data aggregation and display

- ✓ On-site production data on electronic billboards
- ✓ OEE information display & managerial functions

WebAccess/HMI



MBP Models
UNO-2271G
UNO-2372G

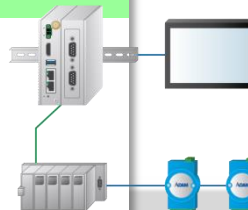
Equipment Connectivity

HMI Centric

Machine Data Exchange

- ✓ Protocol Transition
- ✓ Real-time monitoring

WebAccess/HMI



Facility & Environment Management

Central Controller

Data Acquisition and Central Management

- ✓ Control room monitoring
- ✓ Data analysis from server

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Embedded Box PC Roadmap

Available Developing Planning

Performance PC
(Regular)

UNO-2483G



- Intel® Haswell i7/i3/Celeron DC DDR3L 8GB/4GB
- iDoor, 4 GbE, 4 USB, 4 COM, HDMI, VGA,
- 2mPCIe, mSATA, 2 SATA

UNO-2484G-6



- Intel® Skylake-U i7/i5/i3 DDR4 8GB/4GB, 10 -36vdc
- 4 GbE, 4 USB, 4COM, HDMI, DP, 1mPCIe, mSATA, 2 SATA,TPM2.0
- Option: 3 more mPCIe (iDoor)

UNO-2484G-7



- Intel® Kabylake -U i7/i5/i3 DDR4 8GB
- 4 GbE, 4 USB, 4COM, HDMI, DP, 1mPCIe, mSATA, 2 SATA,TPM2.0
- Option: 3 more mPCIe (iDoor) or 1 x PCIe4

UNO-2484G-8



- Intel® Icelake i7/i5/i3 DDR4 8GB
- 4 GbE, 4 USB, 4COM, HDMI, DP, 1mPCIe, mSATA, 2 SATA,TPM2.0
- Option: 3 more mPCIe (iDoor) or 1 x PCIe4

UNO-2473G-E3



- Intel® Atom E3845 QC 1.91GHz DDR3L 4GB
- iDoor, 4 GbE, 4 USB, 4 COM, HDMI, VGA,
- 2mPCIe, mSATA, SATA- 40~ 60

UNO-2473G-J3

- Intel® Celeron J1900 DDR3L 4GB
- 2 GbE, VGA, HDMI, 4 COM
- iDoor, 2 mPCIe, SATA

UNO-2372G-E0



- Intel® ATOM E3845, 4GB.DDR3L
- 2GbE, 4 COM, 4 USB, HDMI, DP
- 1 mPCIe, 1 mSATA, 1 SATA

UNO-2372G-J0



- Intel® Celeron J1900, 4GB.DDR3L
- 2GbE, 4 COM, 4 USB, HDMI, DP, TPM2.0
- 1 mPCIe, 1 mSATA, 1 SATA

UNO-2372G-E1



- Intel® ATOM APL, 4GB.DDR3L
- 10-36vdc
- 2GbE, 4 COM, 4 USB, HDMI/DP
- 1 x mPCIe, 1x SATA

UNO-2362G



- AMD T40E 1.0GHz Dual Core
- iDoor, 1 GbE, 4 USB, 2 COM, HDMI, DP
- 1mPCIe, 1mSATA, SATA(option)

UNO-2272G-J2



- Intel® Atom N2800/J1900 DDR3 2GB
- iDoor, 1 GbE, 3 USB, 1 COM
- 2 mPCIe mSATA

UNO-2271G



- Intel® Atom E3815 DDR3L 4GB 1066MHz
- 32G eMMC, 1mPCIe, 1USB, 2LAN, HDMI

2017

2018H1

2018H2

2019

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ADVANTECH

Control cabinet PC Lineup

Performance ↑

UNO-1000

UNO-3000

IIoT Gateway

Expansible controller

Diverse Application



UNO-32XX

UNO-33XX

UNO-34XX

DIN-Rail mount

Wall
mount

Book
mount

Enclosure
mount

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Control Cabinet PC

Ease of Installation

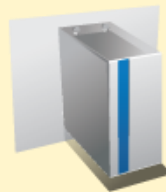
- Optimized size
- Support Versatile Mounting Method



**DIN-Rail
Mount**



**Wall
Mount**



**Book
Mount**



**Enclosure
Mount**



UNO-1000



UNO-3200



UNO-3300



UNO-3400

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Control Cabinet PC

Ease of Maintenance

- Front accessible I/O ports and LED indicators



Ease of Heat Dissipation

- Outside heatsink

DIN-Rail Controller line up



CID2 Certified

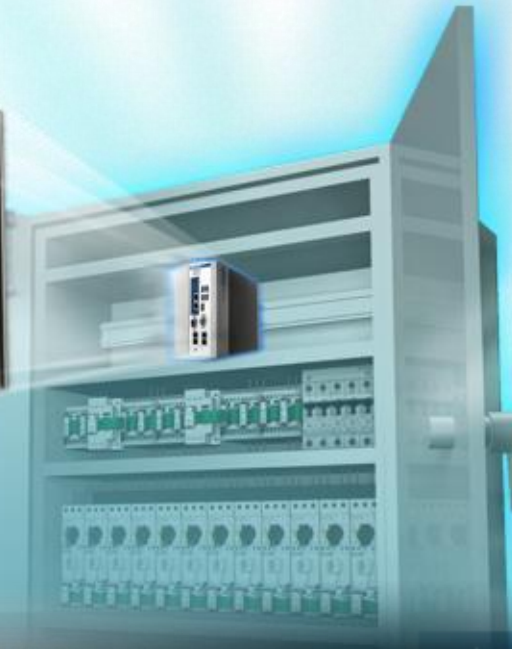


NEW!

Model	UNO-1483G-434AE	UNO-1372G-E3AE	UNO-1372GH-E3AE	UNO-1372G-J021AE
CPU	Intel® Core i3-4010U 1.7GHz*	Intel ATOM E3845 1.91GHz		Intel Celeron J1900 2.0Ghz
RAM	Built-in 8GB DDR3L	Built-in 4GB DDR3L		Built-in 4GB DDR3L
Display	VGA/DisplayPort	VGA, HDMI		DP, HDMI
Expansion	3 x mPCIe, 1 x PCIe	2 x mPCIe		2 x mPCIe
I/O Ports	2 x RS-422/485, 1 x RS-232, 2 x USB3.0/2 x USB2.0	1 x RS-422/485, 1 x RS-232, 2 x USB3.0/1 x USB2.0		Isolated 4 x S232/422/485, 1 x USB3.0/2 x USB2.0
Digital I/O	Isolated 4DI/ 4DO			
LAN	4 X RJ45, 10/100/1000Mbps	3 X RJ45, 10/100/1000Mbps		2 X RJ45, 10/100/1000Mbps
TPM	TPM 1.2 by iDOOR	TPM 1.2 by iDOOR		Onboard TPM 2.0
LEDs Indicator	PWR, PWR1, PWR2, BAT, HDD, COM Port(3)	PWR, PWR1, PWR2, BAT, HDD, COM Port(2), PL(1)		PWR, 4 Tx/Rx, BAT, HDD, Programmable LED
Operating Tem.	-20~60'			
Power Input	12/24V±20%	9-36VDC		10-36VDC
Software Support	Win7, Win8, Linux,	Win7, Win8, Win10, Linux		Win7, Win8, Win10, Linux

UNO-1483G Din-Rail Motion/Vision Controller

- Multiple expansion
 - PCIe x1, Full size mPCIe X2, Half size mPCIe X1
 - iDoor for versatile fieldbus support or additional I/O
- Rich connectivity
 - Built in digital I/O
- Always online
 - Dual power input
 - Remote Power Control
 - Hot-Swap RTC Battery



iDoor



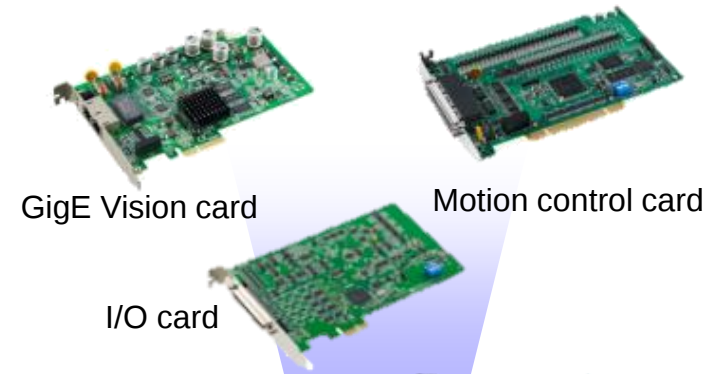
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Multiple Expansion – PCIe/mPCIe & iDoor support

- **PCIe Expansion**

One PCIe slot enable multiple expansion including high density I/O, vision or motion cards



- **mPCIe Expansion**

- 2 x full size mPCIe socket
 - mSATA
 - iDoor
 - Industrial Fieldbus
 - Wireless solution
 - Multiple I/O & Peripheral
- 1 x half size mPCIe socket



Always online

– Dual power input & remote control

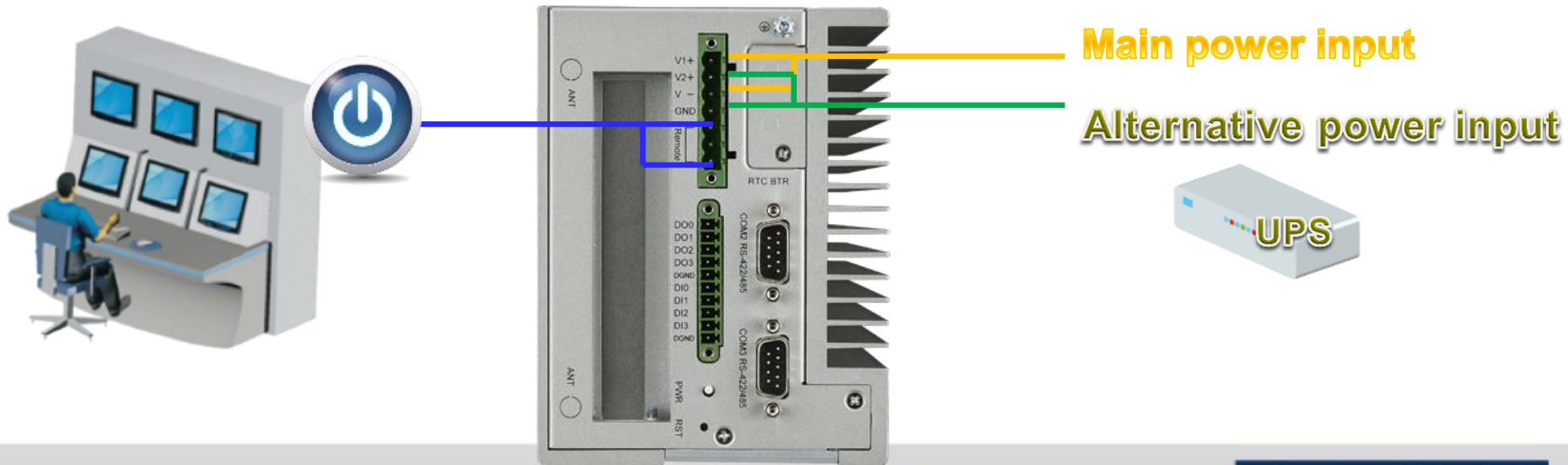


- **Dual Power Input**

Dual power input with wide range for operating voltage is a fail-safe mechanism to reduce working unit maintaining down time by alternative power input source

- **Remote Power Control**

Remote power on assists working units go back online from outside off cabinet for saving maintain effort



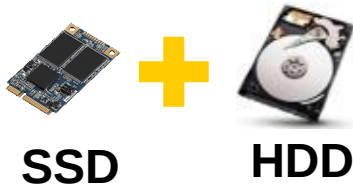
User friendly design

—Removable RTC Battery & Dual storage support



- **Hot-swap RTC Battery**

Removable RTC battery could be easily swapped during operation for saving maintain time



- **Dual storage support***

mSATA SSD support which can be used for OS installation
HDD support which can be storage expansion

*Possible customization to support RAID with dual HDD



- **R-angle without sharp edge**

R-angle design prevents sharp edge to scratch hands

Designed for Vision/Motion Market - Powerful CPU, Flexible Expansion and Din-rail Mount



PCM-24R2PE

2 Port PoE 802.3af
Intel i350 RJ45



UNO-1483G

Intel® Core™ i3
Regular-Size
DIN-Rail Controller



FPM-7151W

15.6" Industrial
Monitor



FPM-7211W

21.5" Industrial
Monitor



Motion Card



Pulse
output

PCIe

Ethernet
(PoE)

DO

DO

RS-485



Servo Motor

Camera

Light Control

Alarm

Inverter

mPCIe

VGA

DP



VGA

DP

DO

DO

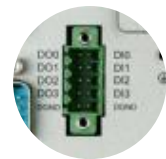
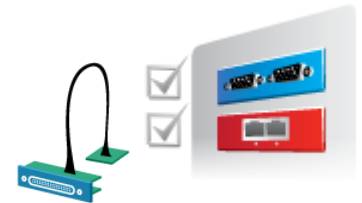
RS-485

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ADVANTECH



- **External accessible RTC battery**
 - Save time of maintenance.
- **Dual power input**
 - Dual power input prevents one of power supply drops or out of line.
- **Easy extension via iDoor**
 - Rich iDoor modules support storage, fieldbus, communication, etc.
- **Ruggedize design**
 - Wide power input range(9-36V) & operating temperature
- **8 x digital input/output with isolation protection**



New UNO-1372G Application

Decentralized Motion Control & Fieldbus communication

- Soft-logic controller for motion application under 32 Axis
 - Printing and package
 - Textile and printing
 - Lithium battery production
 - Cylindrical Winding & Lamination
- Easy construct different industrial fieldbus communication structure



EtherCAT



Remote I/O

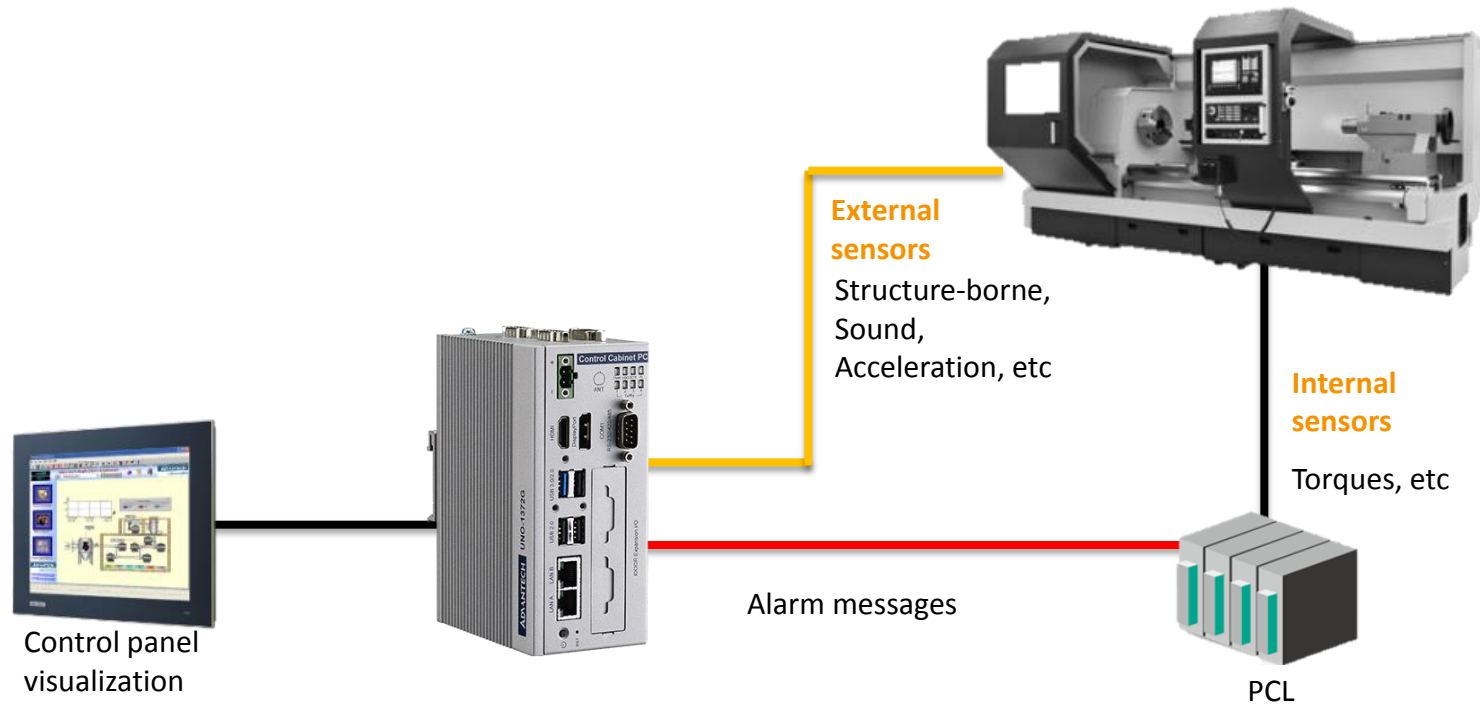
Servo / Stepping motor

linear position
measurement sensor

New UNO-1372G Application

Process monitoring for machine tools

- Quality assessment of the production process
- Predictive maintenance and alarm
- Visualized HMI providing preventive maintenance recommendations and flexibility to on-time, on-site reparative operation



UNO-1251/1252 - Micro size IIoT gateways

**Micro Size
Adequate Performance**



UNO-1252G

- Micro Size -100mm Height
- Intel Quark, 800MHz
- iDoor Technology provides flexibility
- Isolated digital I/O & COM
- Yocto Linux



UNO-1251G

- Micro Size -100mm Height
- TI Cortex A8, 600MHz
- Programmable OLED display
- CANbus
- 128K backup FRAM
- Remote display technology
- 450 PLC drivers support
- WEC7/Embedded Linux



UNO-2271G

- Micro Size -100mm Length
- Intel Atom E3815, 1.46GHz
- Modular design – Optimize UNO, Domain UNO, Universal UNO
- WES7/Win10/AdvLinux

Cloud-enabled HMI – Production & Alarm Management



- **Operators on site**
 - Immediately & intuitively catch system status through **OLED display**
- **Engineers & Manager anywhere**
 - Central control multiple UNO-1251G through **DiagAnywhere** utility on PC
 - Conveniently remote access through **VNC** software on mobile devices

Expandable Controller line up

Model						
	UNO-1483G	UNO-3283G	UNO-3285G	UNO-3382G	UNO-3384G	UNO-3483G
CPU	Intel® Core™ i3-4010U	Intel® Core™ i7-6822EQ/ i5-6442EQ/ i5-6440EQ / i3-6102E	Intel® Core™ i7-6822EQ/ i5-6442EQ/ i3-6102E	Intel® Core™ i7-4650U	Intel® Celeron® 2980U	Intel® Core™ i7-3612QE
I/O	• 1 x RS-232 • 2 x RS-422/485 • 4 x LAN • 2 x USB 2.0 • 2 x USB 3.0 • 1 x VGA, 1 x DP	• 2 x RS-232/422/485 • 2 x RS-232 (Pin header) • 2 x LAN • 6 x USB 3.0 • 1 x DVI, 1 x HDMI		• 1 x RS-232/422/485 • 2 x RS-232 (Pin header) • 2 x LAN • 2 x USB 2.0, 2 x USB 3.0 • 1 x DP, 1 x HDMI		• 1 x RS-232 • 1 x RS-422/485 • 2 x LAN • 2 x USB 2.0 • 2 x USB 3.0 • 1 x VGA, 1 x HDMI
Memory	8 GB	8 GB	8 GB	8 GB	8 GB	8 GB
PCIe	1x PCIe1	1x PCIe16	2 x PCIe8	-	1x PCIe4	1x PCIe4
PCI	-	1	2	-	1	-
mPCIe	2	2	2	2	2	2
Storage (SATA)	1	2 (Hot-swappable)	2 (Hot-swappable)	2 (Hot-swappable)	2 (Hot-swappable)	2 (Hot-swappable)
CFast slot	-	1	1	1 (front)	1 (Front)	-
Mounting	DIN-Rail mount	Wall/ Stand/ Enclosure mount		Book/ Wall mount		Enclosure mount

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UNO-3200 Series Features & Benefits

Flexible Expansion

PCI/ PCIe and additional iDoor expansion for more than 30 types expansion with vertical heat dissipation

Latest Technology

High Performance Intel 6th Gen Core i3/i5/i7 Processor with comprehensive I/O

Industrial Design

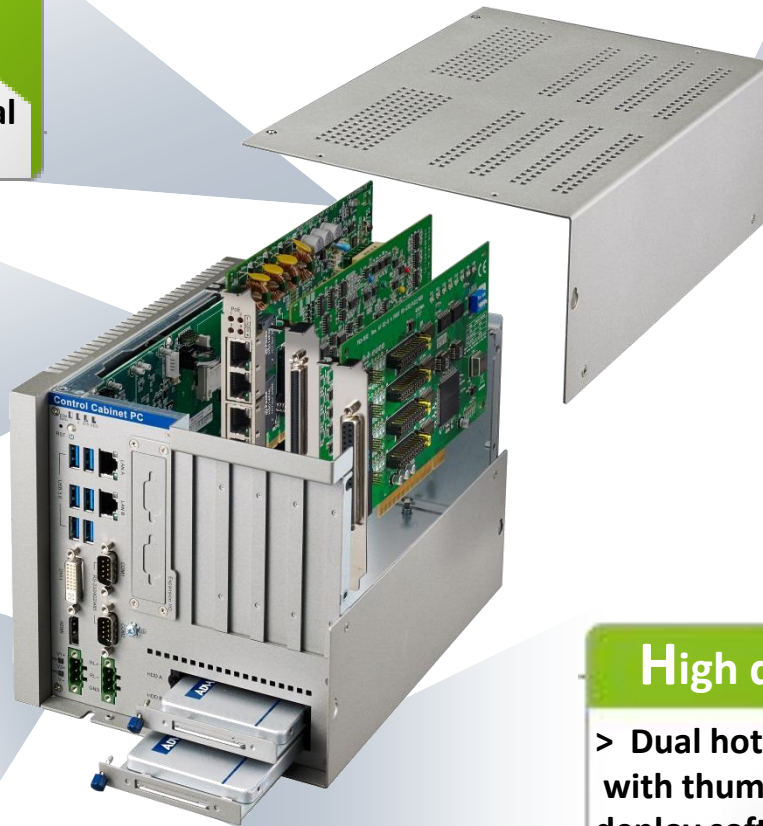
Dual Power Input with 10-36VDC wide power range preventing unsuspecting system downtime by alternative power input source

Easy Maintenance

Removable L-shaped top cover ensure convenient expansion

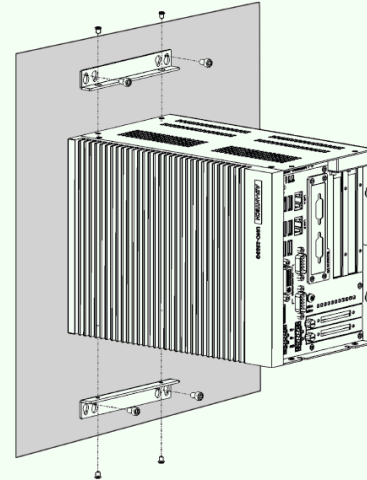
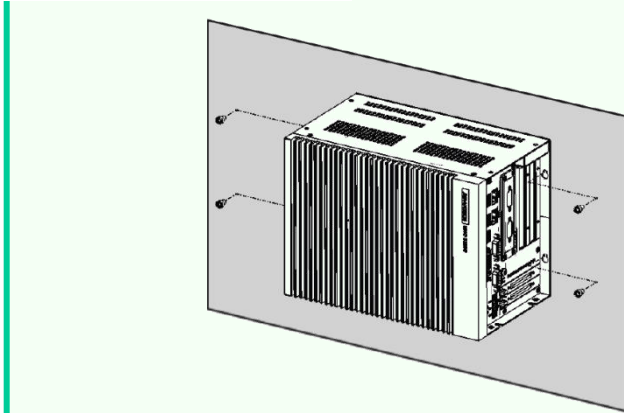
High data Security

- > Dual hot-swappable storage with thumb screw let operators deploy software data without interrupting operation
- > Support RAID 0/1 for back up data

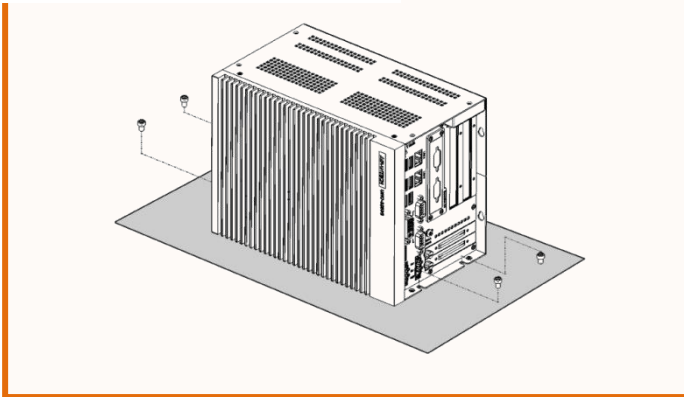


Mounting Illustration

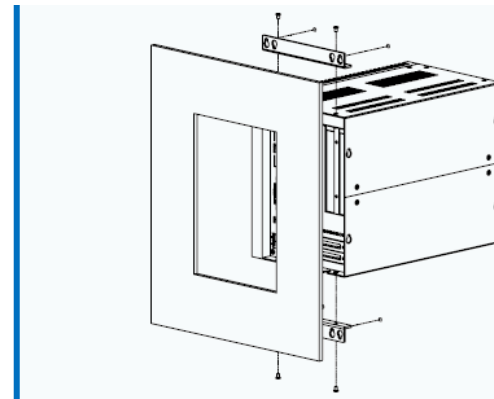
- **Wall Mount**



- **Stand Mount**



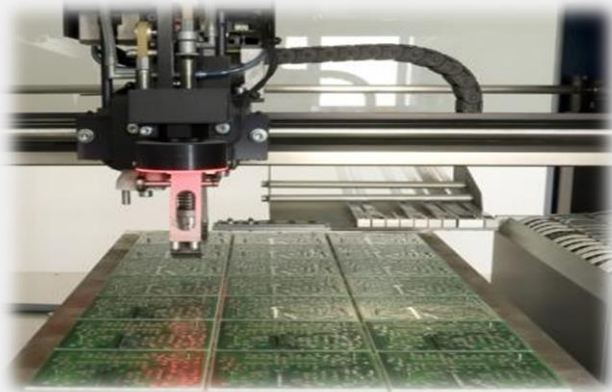
- **Enclosure Mount**



* Mounting kit already included in default package

Target Applications

- Highly integrating PC, Vision & Motion control to process Data grabbing, Photo analysis, and is able to command actions for inspecting or sorting microelectronics elements.



Control Cabinet PC Roadmap

Available Developing Planning

Expandable Controller
(Regular)

Wall mount



UNO-3283G



- Intel® Core™ 6th Gen i7/i5/i3, DDR4 8GB
- iDoor, 2 GbE, 6 USB, 2 COM, DVI, HDMI, 2 slot(PCIeX16+PCI), Power redundancyinputs, Dual HDD



UNO-3285G



- Intel® Core™ 6th Gen i7/i5/i3, DDR4 8GB
- iDoor, 2 GbE, 6 USB, 2 COM, DVI, HDMI, 4 slot(2 PCIeX8+ 2 PCI)
- Power redundancyinputs, Dual HDD



UNO-1483G



- Intel® Core™ 4th Gen i3-4010U ULT 1.7GHz, DDR3L 8GB
- iDoor, 4 GbE, 4 USB, 3 COM, DP, VGA, DIO(4/4)
- 2 mPCIe, PCIe, mSATA, SATA



UNO-1372G



- Intel® Atom E3845 QC 1.91GHz DDR3L 4GB
- iDoor, 3 GbE, 3 USB, 2 COM, HDMI, VGA, DIO(4/4)
- 2mPCIe, mSATA, SATA



UNO-1372G -J0



- Intel® Celeron J1900, 4GB DDR3L
- iDoor, 2 GbE, 4 USB, 4 COM, HDMI/, P, 4DI, 4DO, TPM2.0
- 1 mPCIe, 1 mSATA, 1 SATA



UNO-1251G



- TI A8, AM3517 600MHz, DDR2 256MB, WEC7
- 2 LAN, 1 USB, 3 COM, 1 CAN
- 1G mSD



UNO-2271G-E23AE



- Intel® Atom E3815 DDR3L 4GB 1066MHz
- 32G eMMC, 1mPCIe, 1USB, 2LAN, HDMI, 2 COM



UNO-1252G



- Intel Quark 400MHz, DDR3 256MB, Yocto Linux
- iDoor, 2 LAN, 2 USB, 2 COM, DIO(4/4)
- 2 mPCIe, 1G mSD

UNO-1482G-8



- Intel® Icelake, DDR4 8GB
- 3 GbE, 4 USB, 4 COM, HDMI, DP, TPM2.0, 4DI, 4DO
- Option: 1, 2 or 4 PCI/PCIe slots

Q4'18

UNO-1372G -E1



- Intel® APL, 4GB DDR3L
- iDoor, 2 GbE, 4 USB, 4 COM, HDMI/DP, 4DI, 4DO, TPM2.0
- 1 mPCIe, 1 mSATA, 1 SATA

IoT Gateway

Small

Micro

DIN-Rail mount

2017

2018H1

2018H2

2019

*Model name is subjected to change

Control Cabinet PC Roadmap – Diverse application

Available Developing Planning

Water Proof

UNO-3483



- Intel® 3rd Gen. Quad Core™ i7-3612QE QC
- 12/24Vdc+/-20%
- 8GB, DDR3L
- 2GbE, 2COM, 4USB, VGA, HDMI
- 2 mPCIe, 1 PCIe4
- Hot-swap HDD/battery
- IP67



UNO-3382G/3384G



- Intel® 4th Gen. Core™ 4650U
- 24Vdc+/-20%
- 2GbE, 1COM, 4USB, HDMI, DP, 2mPCIe
- 2 iDoor, 1 Cfast, dual HDD
- 1 PCIe4, 1 PCI (UNO-3384G)
- 61010 Certified



UNO-1372GH



- Intel® Atom E3845 QC 1.91GHz
- DDR3L 4GB
- iDoor, 3 GbE, 3 USB, 2 COM, HDMI, VGA, DIO(4/4)
- 2mPCIe, mSATA, SATA
- C1D2 Certified



2017

2018H1

2018H2

2019

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*Model name is subjected to change