

# WA-HU HMI Series

## Visualized Box HMI & Communication Gateway with WebAccess/HMI Runtime

NEW



### Introduction

The WA-HU HMI standard series is a complete application-ready-package which includes Embedded Automation Box PC with palm/regular form factors, 32GB mSATA, Microsoft Windows embedded 7 Pro and WebAccess/HMI Runtime. This allows users to easily achieve efficient, integrated HMI solutions for production information visualization and multiple protocols translation in automation industries. The Embedded Automation Box PC with Intel® Celeron/Core i3™ or relevant processor provide computing performance and various mounting options for any field side operation.

The built-in Open HMI Runtime features with rich object library, online/offline simulation, and over 450 industrial protocols and drivers. It is dedicated to a wide range of HMI control and visualization providing powerful, user-friendly and reliable solutions in most sophisticated applications.

#### Ready-to-go Open HMI Solution Package enabling Industry 4.0 includes:

- Embedded Automation Box PC
- 32GB mSATA
- Microsoft Windows embedded 7 Pro 64bit
- WebAccess/HMI Runtime 1500 tags

### Open HMI Solutions Specifications

#### Visualized Box HMI for Process Information

- Supports high resolution VGA and full HD HDMI output
- Multiple languages for HMI (up to 10 languages)
- Object library: includes default/common objects, object groups and global objects
- HMI Designer: a powerful develop tool supports online/offline design simulation
- User-customized picture/sounds database

#### Application-oriented HMI Design Function

- Data log: up to 16 datalog blocks (saved as csv/txt file)
- Operation log: operation history for process parameter inspection (saved as csv file)
- Alarm: up to 16 alarm blocks, e-mail notification (supports SSL/TSL encryption)
- Recipe: up to 16 Recipe blocks
- Schedule: up to 80 sets
- Event: up to 36 sets
- User-customized data process: Macros
- Security Authority: 9 levels password

#### Communication with Multiple Systems

- Includes rich interfaces as RS-232/422/485, USB 3.0/2.0, Ethernet, Audio I/O
- Maximum Serial/Ethernet Links: 4-links (serial), 16-links (Ethernet)
- Supports 450 communication protocols and drivers for industrial devices
- Gateway service by Modbus for HMI devices communication
- Flexible I/O expansion by iDoor technology

### Features

#### Open HMI Solution by Application-Ready-Package includes:

##### Embedded Automation Box PC

- Industrial fanless compact design with palm and regular form factor
- Flexible stand, wall, VESA, Din-rail mounting options
- Powerful Intel Celeron/Core i3 processor performance
- 32GB industrial mSATA installed
- Microsoft Windows Embedded 7 Pro 64-bit installed
- Supports iDoor technology for diverse applications

##### WebAccess/HMI Runtime

- Includes HMI Runtime 1500 tags
- Supports 450 industrial communication protocol and drivers for PLC/devices
- Rich object library for easy application design
- Supports on-/off-line design simulation by the development tool

#### Reliable Design for Field side Operation

- Fanless compact design with higher reliability
- Stand, wall, VESA and Din-rail mounting for any field side installation
- Supports remote system status monitoring by WISE-PaaS/RMM
- Approved Certifications: BSMI, CCC, CE, FCC Class A, UL
- Wide operating temperature
- Vibration Protection with mSATA: 2 Grms (5~500 Hz)



For more details of successful stories with Open HMI Solution and technical support documents, visit the Advantech website: <http://select.advantech.com/open-hmi-solutions>

## Configuration Options

Series	Visualized Box HMI & Communication Gateway series		
Ordering P/N	WA-HU2272G-J15H2AE	WA-HU2473G-J15H2AE	WA-HU2483G-315H2AE
Embedded Automation PC	UNO-2272G-J2AE	UNO-2473G-J3AE	UNO-2483G-434AE
Operating System	Microsoft WES 7 Pro (64bit)		
HMI Software	WebAccess/HMI Runtime 1500 tags		
Form Factor	Palm Size	Regular Size	Regular Size
CPU	Intel Celeron J1900 2.0GHz	Intel Celeron J1900 2.4GHz	Intel Celeron J1900 2.0GHz
Memory	4G DDR3L SDRAM	4G DDR3L SDRAM	8G DDR3L SDRAM
Display Type	HDMI: 1920 x 1080 @60Hz	HDMI: 1920 x 1080 @60Hz VGA: 2560 x 1600 @60Hz	HDMI: 3200 x 2000 @60Hz VGA: 1920 x 1200 @60Hz
Storage	32GB mSATA x 1		
Expansion Slots	Mini PCIe x 2	Mini PCIe x 1	Mini PCIe x 2
Mounting	Stand, Wall Din-Rail, VESA (with optional kit)		
Network(LAN)	10/100/1000 Base-T x 1	10/100/1000 Base-T x 2	10/100/1000 Base-T x 4
I/O	RS-232 x 1 (RS-422/485 by BIOS option) USB 2.0 x 2 USB 3.0 x 1	RS-232 x 2, RS-422/485 x 2 USB 2.0 x 4 USB 3.0 x 1	RS-232 x 2 RS-422/485 x 2 USB 2.0 x 2 USB 3.0 x 2
iDoor Expansion	iDoor x 1		
Audio	Line-out x 1	Line-in x 1, Line-out x 1	Line-in x 1, Line-out x 1
DC Power Input (Voltage)	24 V <sub>DC</sub> ± 20%	10 ~ 36 V <sub>DC</sub>	24V <sub>DC</sub> ± 20%
Power Consumption	12 W	24 W	28 W
Operating Temperature	-10 ~ 55°C	-10 ~ 55°C	-20 ~ 60°C
Dimensions	157 x 88 x 50 mm	252 x 149 x 62 mm	252 x 149 x 62 mm
Certification	CE, FCC, UL, CCC, BSMI		

## Ordering Information

- **WA-HU2483G-315H2AE** UNO-2483G-434AE, HMI Runtime 1500 tags, 32G mSATA, WES7P
- **WA-HU2473G-J15H2AE** UNO-2473G-J3AE, HMI Runtime 1500 tags, 32G mSATA, WES7P
- **WA-HU2272G-J15H2AE** UNO-2272G-J2AE, HMI Runtime 1500 tags, 32G mSATA, WES7P

## Accessories

- **PWR-247-CE** 100-240V 60W 24V 2.5A Power Supply for WA-HU2272G/WA-HU2473G
- **1757002161** 100-240V 150W 19V 7.89A Power Supply for WA-HU2483G
- **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 M
- **UNO-2000G-DMKAE** Din-rail kit for WA-HU2272G/WA-HU2473G/ WA-HU2483G
- **UNO-2000G-VMKAE** VESA Mount kit for WA-HU2272G/WA-HU2473G/ WA-HU2483G

## Selected iDoor Modules

- **PCM-24D2R2-AE** OXPcie-952 UART, Isolated RS-232, DB9 x 2
- **PCM-24D2R4-AE** OXPcie-952 UART, Isolated RS-422/485, DB9 x 2
- **PCM-24D4R2-AE** OXPcie-954 UART, Non-Isolated RS-232, DB37 x 1
- **PCM-24D4R4-AE** OXPcie-954 UART, Non-Isolated RS-422/485, DB37 x 1
- **PCM-27D24DI-AE** Isolated Digital I/O, 16DI/8DO, mPcie, DB37 x 1
- **PCM-24U2U3-AE** USB 3.0, mPcie, USB-A type x 2
- **PCM-24S2WF-AE** 802.11 a/b/g/n 2T2R w/ Bluetooth4.0, Half-size mPcie
- **PCM-24R1TP-AE** Intel® 82574L, GbE, RJ45 x 1