

WA-HU HMI Series

Visualized Box HMI & Communication Gateway with WebAccess/HMI Runtime

NEW



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

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

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 Core i3-4010U 1.7 GHz
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 _{DC} ± 20%	10 ~ 36 V _{DC}	24 V _{DC} ± 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