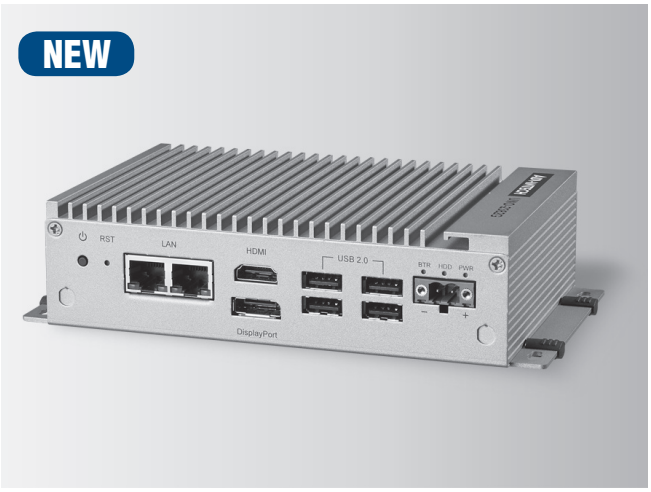
UNO-2362G

AMD® Dual Core T40E Small-Size Automation Computer w/ 1 x GbE, 1 x mPCIe, HDMI/DP

NEW



Features

- Onboard AMD(R) Dual Core T40E 1.0GHz processors with 2GB DDR3 SO-DIMM Memory
- 1 x GbE, 4 x USB 2.0, 1 x RS-232, 1 x RS-485, 1 x DP, 1 x HDMI
- Comprehensive Palm, Small, Regular-size form-factor
- Compact with Fanless Design
- Rubber Stopper Design with Captive Screw
- Daisy-Chain for Ethernet with auto-bypass protection enabled
- Dual HDD/SSD support with RAID 0/1 in regular-size
- Diverse system IO and Isolated Digital IO by iDoor Technology
- Supports Fieldbus Protocol by iDoor Technology
- 3G/GPS/GPRS/WiFi Communication by iDoor Technology
- Supports Battery-backup MRAM by iDoor Technology
- Chassis Grounding Protection

Introduction

Advantech's UNO-2000 series of Embedded Automation Computers are Fanless with highly ruggedised with an embedded operating system (Windows CE, Windows XPE, Linux-Embedded). It also includes iDoor technology which supports automation feature extensions such as industry fieldbus communication, Wi-Fi/3G, Digital I/O, including Palm, Small, and Regular-size Form-Factors with indicated market segments in terms of entry, value and performance product positioning. Both entry and value Embedded Automation Computers feature specific functions and they are suitable for data gateway, concentrator and data server applications. The performance model can shorten your development time and offer multiple networking interfaces to fulfill a diverse range of requirements.

Specifications

General

Certification	CE, FCC, UL, CCC, BSMI
Dimensions (W x D x H)	190 x 107 x 47 mm (7.5" x 4.2" x 1.8")
Form Factor	Small Size
Enclosure	Aluminum Housing
Mounting	Stand, Wall, VESA (Optional)
Weight (Net)	1.0kg (2.2lbs)
Power Requirement	24V_{DC} ±15%
Power Consumption	14W (Typical), 24W(Max)
OS Support	Microsoft® Windows XP/7/8 WES7 Linux Fedora

System Hardware

BIOS	AMI UEFI 32Mbit Flash BIOS
Watchdog Timer	Programmable 256 levels timer interval, from 1 to 255 sec
Processor	AMD® G-series T40E 1.0GHz dual core, 512MB
System Chip	AMD® A50M FCH
Memory	On-board 2GB DDR3 833/1066 MHz
Graphics Engine	AMD Radeon™ HD 6250 DirectX® 11 graphics with UVD 3.0 2D/3D Accelerator
Ethernet	Realtek RTL8111E, Marvell 88E6172 Giga Ethernet switch with daisy chain technology
LED Indicators	LEDs for Power, battery, LAN (Active, Status) and HDD
Storage	One mSATA drive One drive bay for SATA 2.5" HDD (Compatible with 9.5mm height HDD) Note: iDoor technology isn't compatible with HDD storage. CFast drive by iDoor Technology (Optional)
Expansion	1 x Full-size mPCIe slot, mPCIe 2.0 (supports SIM card)

I/O Interfaces

Serial Ports	1x RS-232, DB9, 50~115.2kbps 1x RS-485, DB9, auto flow control, 50~115.2kbps
LAN Ports	2x RJ45, 10/100/1000 Mbps IEEE 802.3u 1000Base-T Fast Ethernet
USB Ports	4x USB 2.0 Compliant
Displays	1x DisplayPort 1.1, supports 1920x1200 (HD 6250) @ 30 bpp 1x HDMI v1.3, supports 1920x1080p @ 36 bpp
Power Connector	1x 2 Pins, Terminal Block
Grounding Protection	Chassis Grounding

Environment

Operating Temperature	- 10 ~ 60°C (14 ~ 140°F) @ 5 ~ 85% RH with 0.7m/s airflow
Storage Temperature	- 40 ~ 85°C (-40 ~ 185°F)
Relative Humidity	10 ~ 95% RH @ 40°C, non-condensing
Shock Protection	Operating, IEC 60068-2-27, 50G, half sine, 11ms
Vibration Protection	Operating, IEC 60068-2-64, 2Grms, random, 5 ~ 500Hz, 1hr/axis (mSATA) Operating, IEC 60068-2-64, 0.75Grms, random, 5 ~ 500Hz, 1hr/axis (HDD)
Ingress Protection	IP40

Application Software

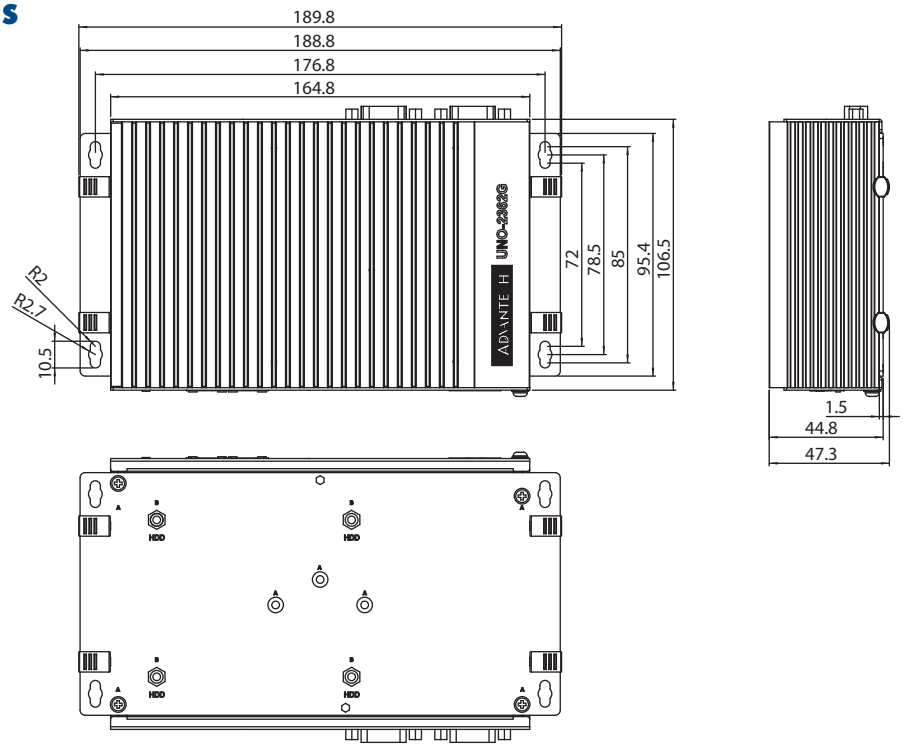
SUSIAccess	Version : V2.1 or above An innovative remote device management software, allowing efficient remote monitoring, quick recovery & backup, and real-time remote configuration, to create a more intelligent and interconnected embedded computing solution.
WebAccess	Version : V7.1 or above WebAccess, as the core of Advantech's IoT solution, is full web browser-based software package for HMI and SCADA software. All HMI and SCADA software features including: Animated Graphics Displays, Real-time Data, Control, Trends, Alarms and Logs, are available in a standard web browser. WebAccess is built around the latest internet technologies. With its open architecture, vertical domain applications can easily be integrated.
PANELEXPRESS Designed for Convenience	Version : V2.0.3.8 or above Panel Express, a windows based HMI mini SCADA, realizes the cross platform flexibility offered by WebOP Designer to switch hardware for the consideration of cost and performance become an easy job. Panel Express software provides the best economic and express solution for data intensive high-end HMI applications.
WebOP Designer	Version : V2.0.3.8 or above An easy to use integrated development tool featuring solution-oriented screen objects, high-end graphics, Windows fonts for multi-language applications. WebOP runtime, a part of WebOP Designer, guarantees reliability and performance because of the minimum system overhead, high communication data rates, and sub-second screen switching.

All product specifications are subject to change without notice

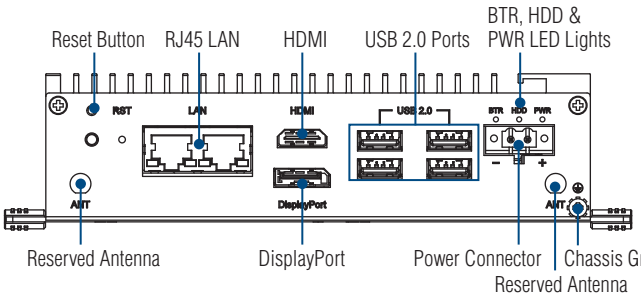
Date updated: 23-May-2014

Dimensions

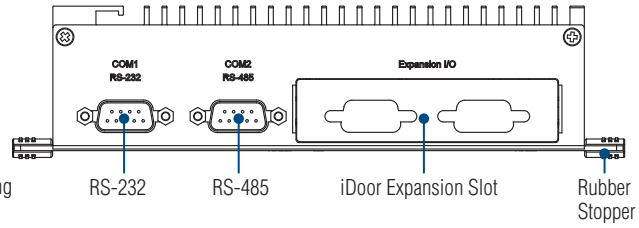
Unit: mm



Front IO View



Rear IO View



Ordering Information

- **UNO-2362G-T2AE** AMD G-series T40E 1.0GHz, 2GB, 1 x GbE, 1 x mPCIe, HDMI/DP

iDoor Modules

- **PCM-2300MR-AE** MR4A16B, 2MByte
- **PCM-26D1PB-AE** Hilscher netX100 FieldBus, ProfiBus, DB9 x 1
- **PCM-26D2CA-AE** SJA1000 CANBus, CANOpen, DB9 x 2
- **PCM-24D2R4-AE** OXPCIe-952 UART, Isolated RS-422/485, DB9 x 2
- **PCM-24D2R2-AE** OXPCIe-952 UART, Isolated RS-232, DB9 x 2
- **PCM-24D4R4-AE** OXPCIe-954 UART, Non-Isolated RS-422/485, DB37 x 1
- **PCM-24D4R2-AE** OXPCIe-954, UART, Non-Isolated RS-232, DB37 x 1
- **PCM-27D24DI-AE** Digital I/O, 16DI / 8DO, DB37 x 1

Accessories

- **1757002321** 63W, AC-DC, 100-240V, 24VDC 2.62A Power Supply
- **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

Embedded OS & Automation Software

- **2070012411** Image WES7P MUI. V4.12 for UNO-2362G
- **968WEXP003X** PanelExpress V2.0 300 tags S/W license
- **968WEXP015X** PanelExpress V2.0 1500 tags S/W license
- **968WEXP050X** PanelExpress V2.0 5000 tags S/W license