UNO-2362G

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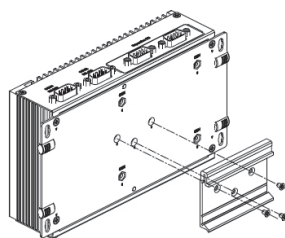
NEW

Features

- Onboard AMD® 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
- Diverse system I/O and Isolated Digital I/O by iDoor Technology
- 3G/GPS/GPRS/Wi-Fi Communication by iDoor Technology
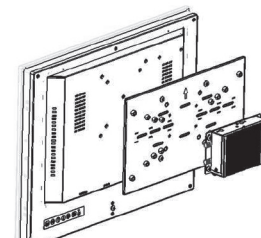- Supports Battery-backup MRAM by iDoor Technology
- Chassis Grounding Protection

SUSiAccess   iDoor   RoHS COMPLIANT 2002/95/EC   CCC   CE   FCC   c UL us LISTED E190881 I.T.E.

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** — 24VDC ±15%
- **Power Consumption** — 14W (Typical), 24W (Max)
- **OS Support** — Microsoft® Windows XP/7/8 WES7
  Advantech Linux

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 or
  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** — 1 x RS-232, DB9, 50~115.2kbps
  1 x RS-485, DB9, auto flow control, 50~115.2kbps
- **LAN Ports** — 2 x RJ45, 10/100/1000 Mbps IEEE 802.3u 1000Base-T Fast Ethernet
- **USB Ports** — 4 x USB 2.0 Compliant
- **Displays** — 1 x DisplayPort 1.1, supports 1920x1200 (HD 6250) @ 30 bpp
  1 x HDMI v1.3, supports 1920x1080p @ 36 bpp
- **Power Connector** — 1 x 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
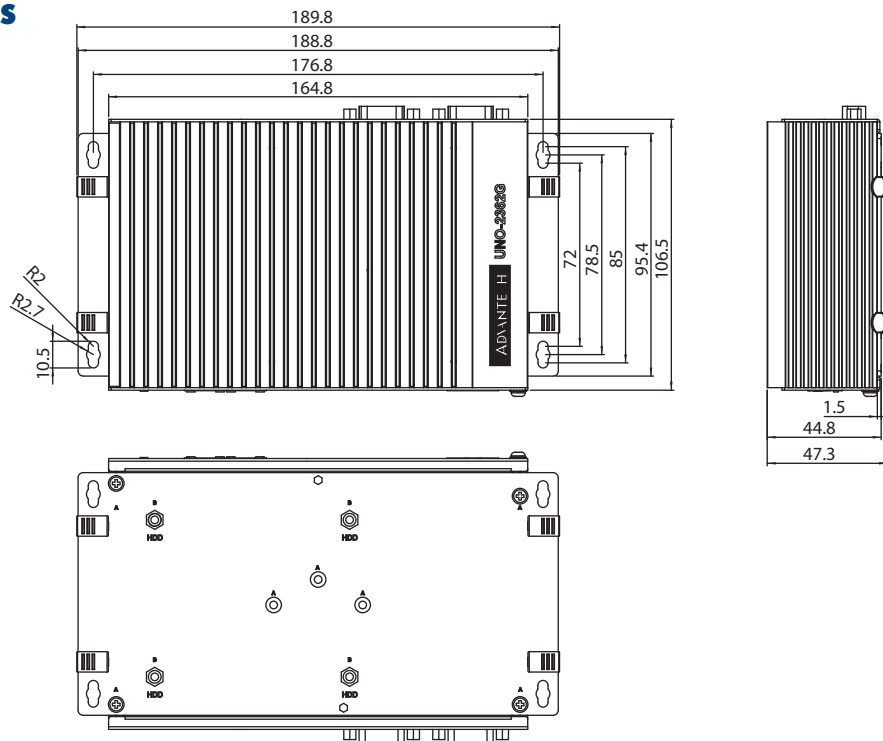
Installation Scenario
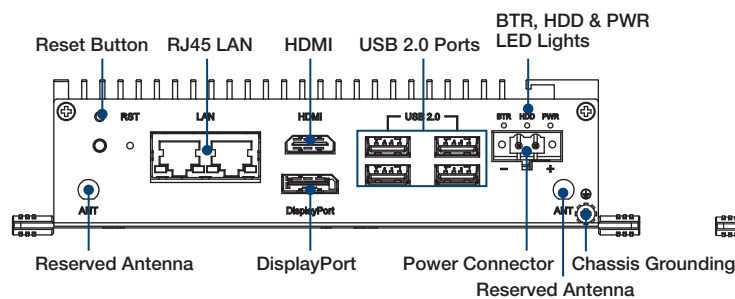
DIN-Rail Mount Illustration
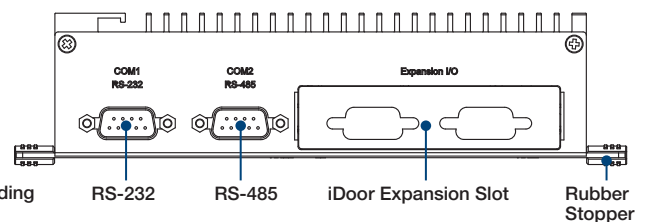

VESA Mount Illustration

Dimensions

Unit: mm

Front I/O View

Reset Button   RJ45 LAN   HDMI   USB 2.0 Ports   BTR, HDD & PWR LED Lights

Reserved Antenna   DisplayPort   Power Connector   Chassis Grounding
Reserved Antenna

Rear I/O View

RS-232   RS-485   iDoor Expansion Slot   Rubber Stopper

Ordering Information

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

iDoor Modules

- **PCM-24D2R2-AE** 2-Port Isolated RS-232 mPCIe, DB9
- **PCM-24D2R4-AE** 2-Port Isolated RS-422/485 mPCIe, DB9
- **PCM-24D4R2-AE** 4-Port Non-Isolated RS-232 mPCIe, DB37
- **PCM-24D4R4-AE** 4-Port Non-Isolated RS-422/485 mPCIe, DB37
- **PCM-26D2CA-AE** 2-Port Isolated CANBus mPCIe, CANOpen, DB9
- **PCM-27D24DI-AE** 24-Channel Isolated Digital I/O w/ counter mPCIe, DB37
- **PCM-24R1TP-AE** 1-Port Gigabit Ethernet, Intel® 82574L, mPCIe, RJ45
- **PCM-2300MR-AE** MR4A16B, MRAM, 2 MByte, mPCIe
- **PCM-24S23G-AE** Wide-Temp 3.75G HSPA and GPS, 2-in-1, Full-size mPCIe w/ Redundant SIM Card holder, 2-port SMA

Optional Accessories

- **96PSA-A60W24T2** 60W AC to DC UNO series power adapter (Industrial Grade)
- **1702002600** Power Cable US Plug 1.8 M (Industrial Grade)
- **1702002605** Power Cable EU Plug 1.8 M (Industrial Grade)
- **1702031801** Power Cable UK Plug 1.8 M (Industrial Grade)
- **1700000596** Power Cable China/Australia Plug 1.8 M (Industrial Grade)
- **1700001524** Power Cable 3-pin US type 1.8 M (Commercial Grade)
- **170203183C** Power Cable 3-pin EU type 1.8 M (Commercial Grade)
- **170203180A** Power Cable 3-pin UK type 1.8 M (Commercial Grade)
- **UNO-2000G-DMKAE** UNO-2000 DIN Rail Kit
- **UNO-2000G-VMKAE** UNO-2000 VESA Mount Kit

Embedded O/S

- **2070012411** Image WES7P MUI. V4.12 for UNO-2362G