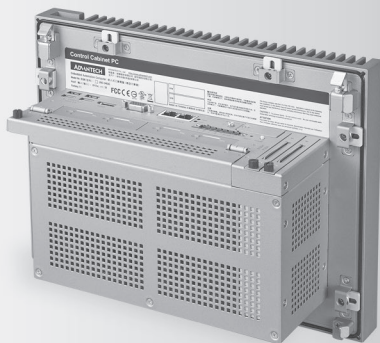# UNO-3483G

Intel® Core™ i7 Control Cabinet PC w/ 2 x GbE, 2 x mPCIe, HDMI/VGA

NEW

Features

- 3rd Generation Intel® Quad Core Processors, up to 2.1 GHz with 8GB DDR3L Memory
- 2 x GbE, 2 x USB 2.0, 2 x USB 3.0, 1 x RS-232, 1 x RS-422/485 (pin header), 1 x VGA, 1 x HDMI
- 1 x PCIex4, 3 x mPCIe (2 x full, 1 x half), 1 x mSATA slot
- Space-saving Compact with Fanless Design
- Thumb screw to easy maintenance
- Hot-Swappable HDD/SSD support for RAID 0/1
- High protection IP67 certification
- Convenient "Place & Click"
- Easily exchangeable RTC battery
- Supports Fieldbus Protocol by iDoor Technology
- 3G/GPS/GPRS/Wi-Fi Communication by iDoor Technology
- Supports MRAM by iDoor Technology
- Chassis Grounding Protection
- LAN Redundancy (Teaming)

iDoor   RoHS COMPLIANT 2002/95/EC   CE   FCC   c UL us LISTED E180881 I.T.E.

Introduction

Advantech's UNO-3483G Control Cabinet PC is configured with high-performance Intel Core i7 processors and QM77 PCH, which supports two displays, four USB ports, two mPCIe sockets, and up to three expansion slots. It also includes iDoor technology which supports automation feature extensions such as industry Fieldbus communication, Wi-Fi/3G, Digital I/O. The UNO-3483G has a compact heat sink with integrated seals mounted on the outside of the cabinet through a corresponding cutout, has a placing-and-click feature considers users' activities and then simplifies the installation procedure for space-saving and high protection using IP67 certification. The high performing UNO-3483G model offers user the maximum flexibility when selecting the control cabinet and remains independent of the number and form of control buttons and switches on the front panel.

Specifications

General

- **Certification** CE, FCC, UL, BSMI
- **Dimensions (W x D x H)** 305 x 82 x 225 mm (12'' x 3.2'' x 8.9'')
- **Form Factor** Regular Size
- **Enclosure** Aluminum Housing
- **Mounting** Enclosure mounting
- **Weight (Net)** 4.9kg (10.8lbs)
- **Power Requirements** 12V/24V$_{DC}$ ± 20%
- **Power Consumption** 50W (Typical)
- **OS Support** WIN7/8, WES7, WES-2009, Linux

System Hardware

- **BIOS** AMI UEFI 128Mbit Flash BIOS
- **Watchdog Timer** Programmable 256 levels timer interval, from 1 to 255 sec
- **Processor** Intel® Core™ i7-3612QE QC 2.1GHz Ivy Bridge Quad Core, 6MB L2
- **System Chip** Integrated Intel 8 Series Chipset
- **Memory** On-board 8GB DDR3L 1333 MHz
- **Graphics Engine** Intel® HD Graphics 4000
- **Ethernet** LAN A: Intel® 82579LM GbE, Intel® AMT, IEEE802.1AS, 802.3az
  LAN B: Intel® 82583V GbE, IEEE802.1AS, 802.3az
- **LED Indicators** LEDs for Power, LAN (Active, Status), Tx/Rx and HDD
- **Storage** One mSATA slot
  Two built-in 2.5" SATA HDD brackets with support for RAID 0/1. (Compatible with 9.5mm height HDD)
- **Expansion** 1 x PCIex4, 2 x Full-size mPCIe, 1 x half-size mPCIe

I/O Interfaces

- **Serial Ports** 1 x RS-232, DB9, 50~115.2kbps (pin header)
  1 x RS-422/485, DB9, auto flow control, 50~115.2kbps (pin header)
- **LAN Ports** 2 x RJ45, 10/100/1000 Mbps IEEE 802.3u 1000Base-T Fast Ethernet
- **USB Ports** 4 x USB Ports (2 x USB 2.0, 2 x USB 3.0 compliant)
- **Displays** 1 x VGA, supports 1920 x 1200 @ 60Hz 24bpp
  1 x HDMI 1.4a, supports 3200 x 2000 @ 60Hz 24bpp
- **Audio** Mic-in, Line-In, Line-Out (Pin Header)
- **Power Connector** 1 x 7 Pin, Terminal Block to support dual power input and remote power control
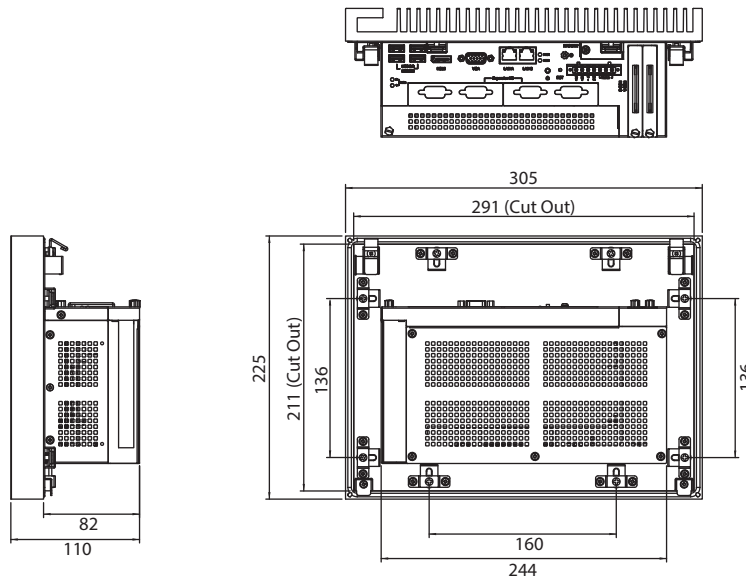
Environment

- **Operating Temperature** - 20 ~ 60°C (-4 ~ 140°F) @ 5 ~ 85% RH with 0.7m/s airflow (Industry SSD)
- **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)
- **Ingress Protection** Integrated seals maintain with IP67 design

Application Software
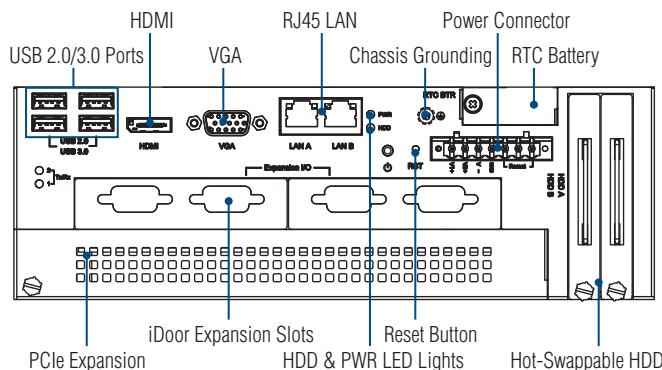
SUSIAccess	Version : V2.1 or above An innovative remote device management software, allowing efficient remote monitoring, quick recovery & backup, and real-time remote configuration, to create a more intelligent and interconnected embedded computing solution.
WebAccess	Version : V7.1 or above WebAccess, 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.

Dimensions

Unit: mm

305

291 (Cut Out)

225

211 (Cut Out)

136

136

82

110

160

244

I/O View

HDMI

RJ45 LAN

Power Connector

USB 2.0/3.0 Ports

VGA

Chassis Grounding

RTC Battery

PCIe Expansion

iDoor Expansion Slots

HDD & PWR LED Lights

Reset Button

Hot-Swappable HDD

iDoor Modules

- **PCM-23C1CF-AE** — 1 CFast Slot with Cover Protection
- **PCM-24R2PE-AE** — 2-Port Gigabit Ethernet, IEEE 802.3af (PoE) Compliant, mPCIe, RJ45
- **PCM-24D2R4-AE** — 2-Port Isolated RS-422/485 mPCIe, DB9
- **PCM-24D4R4-AE** — 4-Port Non-Isolated RS-422/485 mPCIe, DB37
- **PCM-27D24DI-AE** — 24-Channel Isolated Digital I/O w/ counter mPCIe, DB37
- **PCM-24S2WF-AE** — WiFi 802.11 a/b/g/n 2T2R w/ Bluetooth4.0, Half-size mPCIe, 2-port SMA
- **PCM-24S23G-AE** — Wide-Temp 3.75G HSPA and GPS, 2-in-1, Full-size mPCIe w/ Redundant SIM Card holder, 2-port SMA
- **PCM-26R2PN-MAE** — 2-Port Hilscher netX100 FieldBus mPCIe, PROFINET, RJ45, Master
- **PCM-26R2PN-SAE** — 2-Port Hilscher netX100 FieldBus mPCIe, PROFINET, RJ45, Slave
- **PCM-26D1DB-MAE** — 1-Port Hilscher netX100 FieldBus mPCIe, PROFIBUS, DB9, Master
- **PCM-26D1DB-SAE** — 1-Port Hilscher netX100 FieldBus mPCIe, PROFIBUS, DB9, Slave

Ordering Information

- **UNO-3483G-374AE** — Intel® Core™ i7-3612QE QC 2.1GHz, 8GB, 2 x LANs, 1 x PCIex4, 2 x Full-size mPCIe, 1 x half-size mPCIe

User scenario

Accessories

- **1757002161** — 150W AC to DC power adapter (Commercial 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)

Embedded OS & Automation Software

- **2070013472** — Image WES7P X64 MUI. for UNO-3483G
- **2070013473** — Image Linux for UNO-3483G
- **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