



Product Guide

Industrial Edge AI Computer DX-U1100 Series

CONTEC CO., LTD.

Thank you for purchasing this product. The product you have purchased consists of the following items.
Check, with the following list, that your package is complete.
If you find any item either missing or damaged, please contact the sales representative you purchased the product from.
For appropriate usage, be certain to read the Reference Manual before using this product.
Visit our website for downloading free other software tools.

The following manuals come with this product. Visit our website and download them by entering the model type in "Downloads". Read them before using the product. Before using the product, be certain to read the following guide, manual, and driver software. They can be downloaded from CONTEC website.		
Name	Contents	How to get
Product Guide (This sheet)	This lists the product configuration and describes the precautions.	Included in the package (Printed matter)
Reference Manual (Hardware)	Regarding the hardware such as functions and settings of the product is described.	Download (PDF)
Reference Manual (Software)	This describes basic information, the setup procedure, and the recovery procedure.	Download (PDF)
Download	https://www.contec.com/download/	

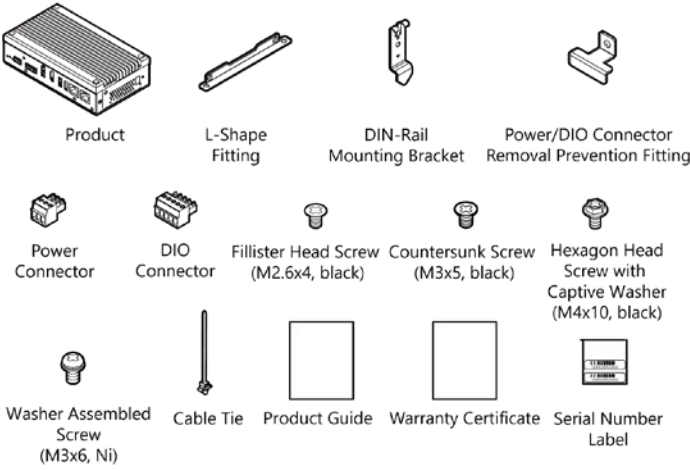
1. About the Product

This product is an industrial computer suitable for AI inference processing equipped with the NVIDIA® Jetson Nano™ module.
The product contains Gigabit LAN×2, HDMI, embedded DisplayPort(eDP), USB×2, general-purpose I/O, and RTC. It features installation flexibility and environmental resistance so that practical applications can be realized with confidence.
Similar to the developer kit for the software environment, Ubuntu is pre-installed and Jet-Pack SDK is available to run applications created with the developer kit.
The product model with a PCI Express slot is also available, and functions can be added by installing CONTEC's various Low Profile PCI Express cards.

2. Product Configuration

This product consists of the items listed below.
Check, with the following list, that your package is complete. If you discover damaged or missing items, contact your retailer.

	DX-U1100-2E0211 [Base Model]	DX-U1100P1-2E0211 [Expansion Slot Model]
Name	Pcs.	Pcs.
Product	1	1
Power Connector	1	1
DIO Connector	1	1
Power/DIO Connector Removal Prevention Fitting	1	1
L-Shape Fitting	2	2
DIN-Rail Mounting Bracket	2	2
Fillister Head Screw (M2.6x4, black)	3	3
Countersunk Screw (M3x5, black)	4	4
Washer Assembled Screw (M3x6, Ni)	3	3
Hexagon Head Screw with Captive Washer (M4x10, black)	4	4
Cable Tie	1	1
Product Guide (this sheet)	1	1
Warranty Certificate	1	1
Serial Number Label	1	1



3. Safety Precautions

Understand the following definitions and precautions to use the product safely.
The caution mark "⚠" on the face of the product indicates that you should always check the meanings of the symbol described in the manual.

Handling Precautions

⚠ WARNING
<ul style="list-style-type: none">Do not use the product in locations exposed to a flammable or corrosive gas. It may cause explosion, fire, electrical shock, or malfunction.Do not allow the device to come into contact with foreign substances (metal particles, flammable substances, liquids, etc.) Otherwise, it can cause fire or electrical shock.Do not place the product in an unstable location or use incomplete mountings. Otherwise, it may cause the device to fall.Be sure to connect the product to the stipulated power supply voltage. Connecting to a different voltage might cause a fire or electrical shock.Use the product in accordance with the described installing method, conditions, and specifications. If the product is used outside the specified range, the protection performance of this product will be impaired.Users should not attempt to disassemble or modify the product, or to replace components. It will cause electrical shock, fire, or malfunction. CONTEC will bear no responsibility for any problems, etc., resulting from disassembling or modifying the product.Always turn off the power first, then, plug or unplug the cables.For battery replacement, contact your retailer as it must be performed as a process of repair.The product is not intended for use in aerospace, space, nuclear power, medical equipment, or other applications that require a very high level of reliability. Do not use the product in such applications.If using the product in applications where safety is critical such as in railways, automotive, or disaster prevention or security systems, please contact your retailer.

⚠ CAUTION
<ul style="list-style-type: none">Do not use or store this product in a location exposed to high or low temperature that exceeds range of specification or susceptible to rapid temperature changes. Example: Exposure to direct sun In the vicinity of a heat sourceDo not use this product in extremely humid or dusty locations. It is extremely dangerous to use this product with its interior penetrated by water or any other fluid or conductive dust. If this product must be used in such an environment, install it on a dust-proof control panel, for example.Avoid using or storing the product in locations subject to shock or vibration that exceeds range of specification.When transporting the product, take suitable measures to avoid applying shock or vibration directly to the product. Shock resistance: 10G (11ms) below.Use the product in the specified operating condition (temperature, humidity, vibration, and shock).The product should always be grounded (earth).Avoid installing in the place where ventilation of the product may compromise. Insufficient aeration could heat up the product and lead to malfunctions or damages.Do not use this product in the vicinity of devices that generate strong magnetic force or noise. Such products will cause this product to malfunction.Do not use or store the product in the presence of chemicals.To clean the product, wipe it gently with a soft cloth dampened with either water or mild detergent. Do not use chemicals or a volatile solvent, such as benzene or thinner, to prevent the paint to be scraped or discolored.This product's case may become hot. To avoid being burned, do not touch that section while this product is in operation or immediately after turning off the power. Avoid installation in a location where people may come into contact with that section.When connecting cables, first check the shapes of connectors, and then insert them in the correct orientation. After they are connected, do not put too much load on the connected part. Doing so may result in poor contact or damage to the product and the connected part.When the product is used in a place that is affected by overcurrent or overvoltage (lightning surge), select appropriate surge protection device for all of the route (Power line, Signal line, earth, etc.). Consult with the specialist regarding selecting, purchasing, and setting the surge protection device.

- To connect with peripherals, use a grounded, shielded cable.
- Do not touch metal parts or terminals with your hands when the product is in operation. Otherwise, the product may malfunction, or cause failure.
- CONTEC does not provide any guarantee for the integrity of data on storage device.
- To prevent corruption of files, always shutdown the OS before turning off this product.
- CONTEC reserves the right to refuse to service a product modified by the user.
- Regardless of the foregoing statements, CONTEC is not liable for any damages whatsoever (Including damages for loss of business profits) arising out of the use or inability to use this CONTEC product or the information contained herein.
- In the event of failure or abnormality (foul smells or excessive heat generation), unplug the power cord immediately and contact your retailer.
- When disposing of the product, follow the disposal procedures stipulated under the relevant laws and municipal ordinances.

4. SOFTWARE LICENSE AGREEMENT

PLEASE READ THIS SOFTWARE LICENSE AGREEMENT (the "Agreement") CAREFULLY BEFORE OPENING THE PACKAGE OF, DOWNLOADING, INSTALLING, OR USING THE CONTEC'S SOFTWARE. THIS AGREEMENT SET FORTH TERMS AND CONDITIONS REGARDING THE LICENSE TO USE CONTEC'S SOFTWARE DESCRIBED IN THE LICENSE SHEET (the "Software"). BY OPENING THE PACKAGE, DOWNLOADING, INSTALLING OR USING THE SOFTWARE, CUSTOMERS ARE AGREEING TO BE BOUND BY THE AGREEMENT. IF CUSTOMERS DO NOT AGREE TO THE AGREEMENT, CUSTOMERS MAY RETURN THE PRODUCT, WITHOUT OPENING THE PACKAGE, TO THE PLACE WHERE CUSTOMERS OBTAINED IT FOR A REFUND. CUSTOMERS MAY NOT OPEN THE PACKAGE OF, DOWNLOAD, INSTALL OR USE THE SOFTWARE WITHOUT AGREEING TO THE AGREEMENT.

Article 1. Intellectual Property Rights

The copyright, patent right or any other intellectual property right pertaining to the Software or any documentary attachments, such as manuals or license sheets, as well as any copies thereof (the "Software and the Like") shall belong to CONTEC, and customers shall have no rights therefor other than those expressly authorized herein.

Article 2. Permitted License

- CONTEC grants customers a non-exclusive right to install and use, free of charge, the Software solely for the purpose of using hardware products onto which the Software has been installed.
- Customers may copy the Software for a minimum number of times as necessary solely for emergency backup purposes in using the Software. However, description regarding any of the rights pertaining to the Software supplied by CONTEC shall be attached to any such copies.
- Customers may incorporate software provided by CONTEC as a library onto software created by the customer.

Article 3. Restrictions on Use

Customers shall not:

- Create any derivative software from the Software other than as set forth herein;
- Copy the Software other than as set forth therein;
- Modify, adapt, decompile, disassemble or reverse-engineer the Software; or
- Delete or alter the representation or trademark of the rights of the Software.

Article 4. Limited Liabilities

- Except expressly warranted in article 7, CONTEC hereby disclaims any warranty with respect to the software, either express, implied, or statutory, including but not limited to, the implied warranties of merchantability, of satisfactory quality, or fitness for a particular purpose and/or non-infringement of third-party rights.
- To the extent not prohibited by law, in no event shall CONTEC be liable for personal injury, or any incidental, special, indirect or any other commercial damages or losses, arising out of or related to your use or inability to use the software and the like.

Article 5. Transfer

- Customers may transfer their rights authorized in accordance with this Agreement, to a third party only when the customer satisfies all of the following conditions:
 - The customer transfers the Software and the Like, or the Software installed in the hardware to such third party together with the Agreement and the license sheet; and
 - The recipient of the transfer agrees to the terms and conditions herein.
- When the Software and the rights are transferred in accordance with Section 1 of Article 5, the recipient of the transfer shall be deemed to be bound by the Agreement from the time of such transfer.

Article 6. Termination

- CONTEC may terminate the Agreement with immediate effect without any notice or demand to the customer if the customer fails to comply with any of the provisions herein.
- Upon the termination of the Agreement, the customer's license shall cease to be effective. The customer shall immediately discontinue using the Software in any way, and shall uninstall and destruct any reproduction of the Software.

Article 7. Limited Warranty on Media

- CONTEC warrants the media on which the Software is recorded and delivered by CONTEC to be free from defects in materials and workmanship under normal use for a period of 30 days from the original retail purchase. Customers exclusive remedy shall be replacement of the Software which is returned to CONTEC through the distributor.

Article 8. Information regarding the Software

- The information and/or updated program will be delivered through the website of CONTEC.
- The information and/or updated program will be licensed to the Customers in accordance with the Agreement. Customers may use the information and/or updated program at their discretions and responsibilities, however, in case the Customers use such information and/or updated program they shall comply with the terms and conditions of the Agreement.

Article 9. Export Control

- Customers shall comply with the Foreign Exchange and Foreign Trade Act of Japan, the U.S. Export Administration Regulation and the laws and regulations of any other country when taking the Software and the Like outside Japan.

- Customers shall not transfer, export or re-export the Software and the Like to any individual or entity that is likely to use the Software and the Like to design, develop or manufacture nuclear weapons, biochemical weapons, or to design, develop or manufacture missiles.
- Customers shall not transfer, export or re-export the Software and the Like to any individuals or entities set forth in the following countries or regions:
 - The Republic of Cuba, The Islamic Republic of Iran, the Republic of Iraq, the Great Socialist People's Libyan Arab Jamahiriya, or North Korea.
 - Any individuals or entities on the "List of Foreign Users" based on the Import Trade Control Order or the U.S. Department of Commerce Denied Person's List or Entity List; or
 - Any country, region, individual or entity designated by the government of Japan, the U.S., or any other relevant country.

Article 10. Governing Law

The provisions herein shall be construed and governed in accordance with the laws of Japan. This Agreement shall not be governed by the United Nations Convention on Contracts for the International Sale of Goods, the application of which is expressly excluded.

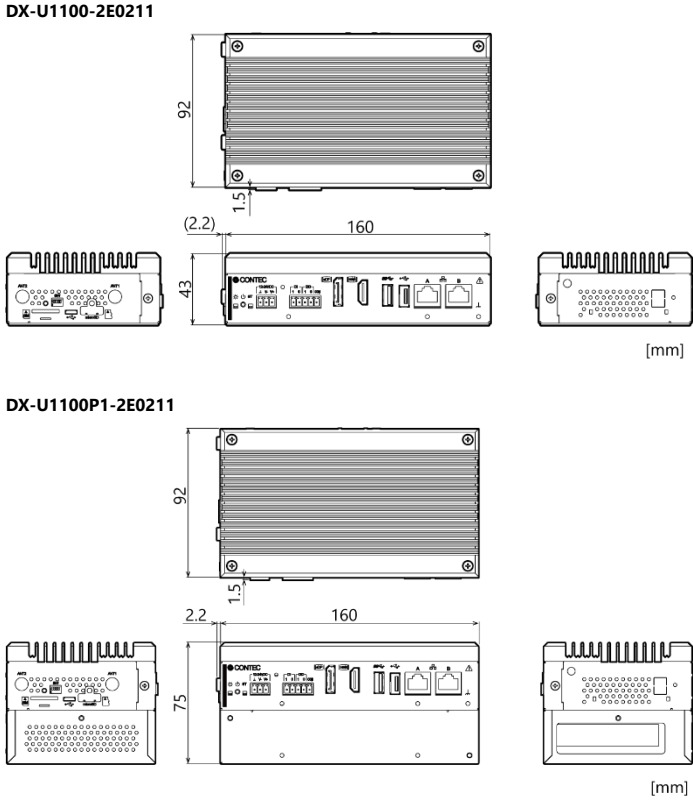
Article 11. Dispute Resolution

Upon the occurrence of any dispute in relation to the Agreement or the Software, if any legal procedures are required, such as the filing of a petition for a lawsuit, the Osaka District Court shall have the exclusive jurisdiction over such dispute.

Article 12. Severability

If for any reason any portion of the provisions set forth herein is found to be invalid or unenforceable, the remainder of the Agreement shall not be affected in any way and shall be valid and enforceable to the extent permitted by law.

5. Physical Dimensions



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