CONPROSYS

Product Guide

Compact CPU Module 4G Model

CPS-MG341G5-ADSC1-931

CONTEC CO., LTD.

Thank you for purchasing this product. The product you have purchased consists of the

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.

Read the Reference Manual, Please use cor-rectly this product.

Visit our website for downloading free other software tools, and applying for Cloud service.

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 booklet) | The outline of the product. | Included in the package (Printed matter) |
| Reference Manual (Hardware) | Regarding the hardware such as func- tions and settings of the product is de- scribed. | Download (PDF) |
| Reference Manual (Software) | Regarding the software settings of the product" is described. | Download (PDF) |

Download https://www.contec.com/download/

1. About the Unit

This product is a M2M controller with isolated RS-422A/485, isolated digital input/output, isolated input counter, inter-channel isolated analog input, RS-232C, LAN interface, and 4G LTE Cat.4 network communication module.

Also, the product is the data collector "M2M Gateway for PLC" that supports respective PLCs as well as various Modbus devices. For equipment with PLC control, data will be collected by "M2M Gateway for PLC". For the one without PLC control, data can be collected by "M2M controller" that supports sensor input.

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













Serial Number Label...1

Antenna...2

3-pin Connector...3 (Power/Analog)

5-pin Connector...1 (RS-422A/485)

10-pin Connector...1

3. Safety Precautions

Understand the following definitions and precautions to use the product safely.

The caution mark " \triangle " on the face of the product indicates that you should always check the meanings of the symbol described in the manual.

Safety Information

This document provides safety information using the following symbols to prevent accidents resulting in injury or death and the destruction of equipment and resources. Understand the meanings of these labels to operate the equipment safely.

↑ DANGER

Signal word used to indicate an imminently hazardous situation which, if not avoided, will result in death or serious injury.

⚠ WARNING

Signal word used to indicate a potentially hazardous situation which, if not avoided, could result in death or seri-

⚠ CAUTION

Signal word used to indicate a potentially hazardous situation which, if not avoided, could result in minor or moderate injury.

Handling Precautions

△DANGER

- 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 this device to come into contact with foreign substances (metal particles, flammable substances, liquids, etc.) This can cause fire or electrical shock.
- Do not place this device in an unstable location or use incomplete mountings. This 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.
- If the equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired.
- This 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 this product in applications where safety is critical such as in railways, automotive. or disaster prevention or security systems, please contact your retailer.

ACAUTION

- Be certain the following requirements are satisfied when using the product. - Altitude up to 5000m - Applicable POLLUTION DEGREE 2 When using the product at high altitudes, refer to the relational expression below to find an appropriate ambient temperature. The heat dissipation decreases due to air pressure drop and could lead to damages or a shorter product life.
- Ambient temperature = 60[°C] 0.005 x altitude [m] The product is used at 3000 meters An Example)
- $60^{\circ}\text{C} (0.005 \times 3000 \text{m}) = 45^{\circ}\text{C} \text{ (Ambient temperature)}$ • Do not use or store the product in a location exposed to extremely high or low temperature that exceeds range of specification or susceptible to rapid temperature changes. e.g. - Exposure to direct sun - In the vicinity of a heat source
- Do not use the product in extremely humid or dusty locations. It is extremely dangerous to use the product with its interior penetrated by water or any other fluid or conductive dust. If the 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. Impact resistance: 15G (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 the product in the vicinity of devices that generate strong magnetic force or noise. Such products will cause the product to malfunction (stop, reboot).
- Do not use or store the product in the presence of chemicals.
- · When removing connectors or cables, always unplug the power cables and confirm the LEDs are turned off. · Do not modify the product. CONTEC will bear no responsibility for any problems, etc.,
- resulting from modifying the product. • In the event of failure or abnormality (foul smells or excessive heat generation), unplug
- the power cables immediately and contact your retailer.
- To connect with peripherals, use a grounded, shielded cable.
- 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.
- · 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
- Do not touch metal parts or terminals with your hands when the product is in operation. Otherwise, the product may malfunction, or cause failure.
- Do not touch the product or connectors with a wet hand to avoid electric shock.
- · The specifications of the product are subject to change without notice for enhancement and quality improvement. Even when using the product continuously, be sure to read the manual in the CONTEC's website and understand the contents.
- 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, LAN, RS-232C, RS-422A/485, Al, DIO, earth, etc.). Consult with the specialist regarding selecting, purchasing, and setting the surge protection device.
- When disposing of the product, follow the disposal procedures stipulated under the relevant laws and municipal ordinances.
- Adjust the air current to dissipate heat from the product.
- Do not touch the antenna with your hands when the product is in operation. Otherwise, the product may malfunction or cause failure.

- To follow the regulation by the Radio Act, use only the supplied antenna or the one listed in chapter regarding optional products.
- In ambient temperature above 45 °C, never touch the metal parts (card cover, top panel, and connector) of the product with your hand as they may cause a burn during the operation since they become extremely hot.
- 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.

4. SOFTWARE LICENSE AGREEMENT

PLEASE READ THIS SOFTWARE LICENSE AGREEMENT (the "Agreement") CAREFULLY BE-FORE OPENING THE PACKAGE OF DOWNLOADING, INSTALLING, OR USING THE CONTEC'S SOFTWARE. THIS AGREEMENT SET FORTH TERMS AND CONDITIONS REGARDING THE LI-CENSE 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 WHETERE CUSTOMERS OBTAINED IT FOR A REFUND. CUSTOMERS MAY NOT OPEN THE PACKAGE OF, DOWNLOAD, INSTALL OR USE THE SOFT-WARE 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

- 1. 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
- 2. 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
- 3. Customers may incorporate software provided by CONTEC as a library onto software created by the custom

Article 3. Restrictions on Use

Customers shall not:

- (1) Create any derivative software from the Software other than as set forth herein;
- (2) Copy the Software other than as set forth therein;
- (3) Modify, adapt, decompile, disassemble or reverseengineer the Software; or
- (4) Delete or alter the representation or trademark of the rights of the Software.

Article 4 Limited Liabilities

- 1. 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 noninfringement of third party rights.
- 2. To the extent not prohibited by law, in no event shall CONTEC be lilable 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.

- 1. 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
- (1) 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;
- (2) The recipient of the transfer agrees to the terms and conditions herein.
- 2. When the Software and the rights are transferred in accordance with Section 1 of Article 5, the recipient of the transfer shall be deem to be bound by the Agreement from the time of such transfer

Article 6. Termination

- 1. 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.
- 2. 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

1. CONTEC warrants the media on which the Software is recorded and delivered by CON-TEC 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

- 1. The information and/or updated program will be delivered through the website of
- 2. 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

- 1. 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.
- 2. 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.
- 3. 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:
- (1) The Republic of Cuba. The Islamic Republic of Iran, the Republic of Irag, the Great Socialist People's Libyan Arab Jamahiriya or North Korea;

- (2) 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
- (3) 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

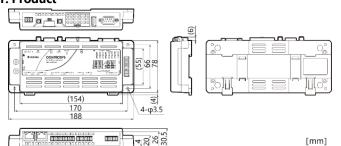
Upon the occurrence of any dispute in relation to the Agreement or the Software, if any legal procedures are required, such as the filing of a petition for a lawsuit, the Osaka District Court shall have the exclusive jurisdiction over such dispute.

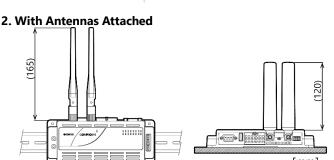
Article 12. Severability

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

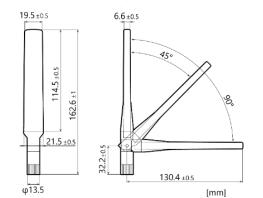
5. Physical Dimensions

1. Product





3. Antenna



6. EU Declaration of Conformity

Hereby, CONTEC declares that the radio equipment type M2M Gateway for PLC Multi-

Function Module 4G/LTE is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address: https://www.contec.com/download/

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