

Thank you for purchasing the YOKOGAWA ID Tag Transceiver card. In order to properly and safely use this product, please read "Safety Precautions" in this manual before carrying out operations.

YOKOGAWA ◆
Yokogawa Electric Corporation

IM 43D02S30-03E
1st Edition

YOKOGAWA ◆

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Represented by:


1. General Notice

- Please read "Safety Precautions" mentioned hereafter before operating the product.
- Keep the manual in a safe place for quick reference whenever a question arises.
 - All descriptions in this manual are subject to change without notice.
 - Every effort has been made in the preparation of this manual to ensure the accuracy of its contents. However, should you have any questions or find any error, please contact us.
 - Copying or reproduction of all or any part of the contents of this manual without YOKOGAWA's permission is strictly prohibited.
 - We are not responsible for any damage suffered by customers or any other third person by the use of the product/manual or damages or any indirect damages caused due to any default which we do not anticipate.
 - We are not responsible for any damage or protection of memory contents in the CASSIOPEIA combined with the ID Tag Transceiver card.
 - Photo contents appearing in this manual may differ slightly from the actual product.

Compact flash is a registered trademark of SanDisk Corporation, USA. CASSIOPEIA is a registered trademark of CASIO COMPUTER CO.,LTD. The names of companies and merchandise used in the text other than above are the registered trademarks or trademarks of the particular companies.

The ID Tag Transceiver is an information technology equipment, which is based on the standard of the Voluntary Control Council for Interference by Information Technology Equipment (VCCI). The product has been designed to be used in a household environment. However, the product may be susceptible to the electromagnetic interference when it is operated in an area adjacent to radio and/or TV sets. Therefore, make sure to properly handle the product according to the Instruction Manual.

2. Safety Precautions

 **WARNING** Describes precautions that should be observed to prevent serious injury or death to the user.

Avoid abnormal conditions


- Avoid using the product under abnormal conditions such as distinctive smell and fumes. Not complying might result in fire hazard or electric shock. If such conditions occur, turn off the CASSIOPEIA power immediately. Then, unplug the ID Tag Transceiver card, and remove the AC adapter from the receptacle.

Avoid disassembling the card

- Avoid disassembling or modifying the ID Tag Transceiver card. Not complying might result in injury or fire hazard or electric shock.

Avoid allowing foreign substances to enter card

- The card should not be plugged in the CASSIOPEIA if foreign substances such as metal tips, water droplet, and liquids adhere to the card. If the conditions exist, turn off the CASSIOPEIA power immediately. Then, remove the battery, and an AC adapter from the receptacle.

 **CAUTION** Describes precautions that should be observed to prevent minor or moderate injury, or damage to the instrument.

Storage location

- Avoid storing the card in wet/damp or dusty conditions. Not complying might result in fire hazard or electric shock. Avoid storing the card in the place where is exposed to oil fume or steam (such as being adjacent to cooking cabinets or humidifiers). Not complying might result in fire hazard or electric shock.

Avoid placing on unstable location

- Avoid placing the card on unstable or high locations. Not complying might result in injury or damage to the product due to impact from accidental dropping.

Card lock selector

- After plugging the card in the CASSIOPEIA, the Card Lock Selector should be set to "Lock". Do not carry out the product while picking up the leading edge of the ID Tag Transceiver card.

Do not throw away the card into the fire

- Avoid throwing away the ID Tag Transceiver card into a fire. Not complying might result in fire hazard or injury due to explosion.

3. Notes for Operation

The ID Tag Transceiver card is a precision product. Improper operation or rough handling may result in failure. Please read the following notes thoroughly before operating it.

- Operate on the following conditions.
 - Temperature range of 0 to 40°C
 - Non-condensationOperating on the conditions other than above may cause trouble.
- Avoid using the ID Tag Transceiver card in the following places. Operation in such environment may cause damage to or failure in the card.
 - Susceptible to static electricity.
 - Extremely high or low temperature.
 - High humidity.
 - Drastic change in temperature.
 - Considerable amount of dirt or dust.
- Avoid applying shock and vibration.

When mated with the ID Tag Transceiver card, the CASSIOPEIA does not have shock- and vibration-proof properties. Therefore, do not drop, or apply shock and/or vibration to the combined unit.

Applying shock and vibration to the unit may result in damage or failure.

■ Splash-proof construction.

The combined unit with the ID Tag Transceiver card has drip-proof construction properties. However, it does not meet the drip-proof standard, which is provided with the CASSIOPEIA. Therefore, care must be taken not to spill water droplet or other liquids on the surface of the combined unit. If water droplets or other liquids adhere to the surface, immediately wipe it off using a dry cloth. Spilling water droplet or other liquids on the unit surface may cause damage or failure.

- If the ID Tag Transceiver card is dropped or damaged, turn off the power immediately, and halt the card operation.
- Avoid applying excessive force to the ID Tag Transceiver card.
- Avoid disassembling the ID Tag Transceiver card. Failure may result.
- Avoid inserting foreign matters into the connector.
- Avoid spilling water or beverages on the ID Tag Transceiver card.
- Avoid cleaning the ID Tag Transceiver card with volatile solvents such as thinner, benzene, or cosmetics. When the card is dirty, wipe it using a dry cloth, or a piece of cloth dampened with neutral detergent (excess fluid squeezed out).
- The ID Tag Transceiver card is used by inserting it into the card slot of the CASSIOPEIA. Therefore, software installed into the compact flash card cannot be used. When an application software other than those in the ID Tag Transceiver card is required, install it in the CASSIOPEIA memory.
- In order to operate the ID Tag Transceiver card, IPPAT software is required.

4. Main Specifications

Parts No:	M3049BA
Compatible PDA System:	CASSIOPEIA EG-800
Dimensions:	87.0(W) x 26.3(D) x 58.1(H) mm
Operating Temperature Range:	0~40°C
Humidity Range:	Less than 85% R.H. (non-condensation)
Operating Voltage:	3.3VDC ±5%
Consumption Current:	9 mA typical (standby), 40 mA typical (operating)
Computer Interface:	Compact flash Type II
Compatible RFID Tag:	125 kHz band; Unique(Sokymat)
Communication Distance:	0 to 40 mm (receiving), 0 to 20 mm (transmitting) Data may vary depending on communication conditions
Conformity Standard:	Conforms to VCCI* Class B. *(Voluntary Control Council for Interference by Information Technology Equipment)

FCC

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and, (2) this device must accept any interference received, including interference that may cause undesired operation.

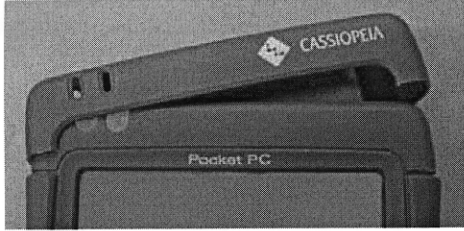
NOTE

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

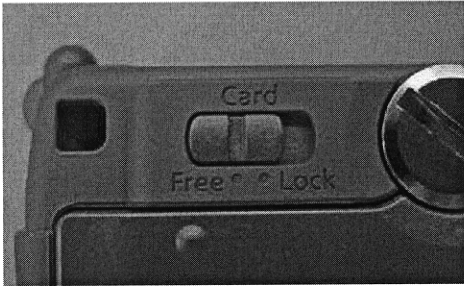
5. Preparatory Procedures

In order to combine the ID Tag Transceiver card with the CASSIOPEIA (EG-800), and allow communication with the RFID tag, carry out the following procedures.

- 1) Installing the Application Software in the CASSIOPEIA (EG-800)
In order to use the ID Tag Transceiver card, the application software, which is compatible with the card, must be installed in the CASSIOPEIA. The application software, which is compatible with the card, can be developed by using an optional "ID Tag Transceiver Software Development Kit (IPTSF20-51)". Concerning the installation procedures of the software, please refer to the subject Instruction Manual.
- 2) Mating the ID Tag Transceiver Card with the CASSIOPEIA
 - a) Turn off the CASSIOPEIA power.
 - b) Remove the card cover from the CASSIOPEIA.



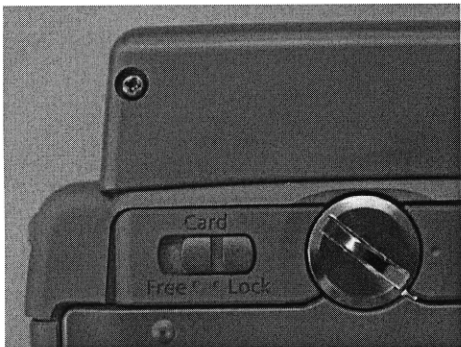
- c) Slide the [Card Lock Selector] to "Free".



- d) Remove the card when other cards such as a memory card has been combined.
- e) Plug the ID Tag Transceiver card into the slot while being careful about card surface direction.



- f) Slide the [Card Lock Selector] to "Lock". (Removing the ID Tag Transceiver Card from the CASSIOPEIA)



Turn off the CASSIOPEIA power, and carry out the procedures mentioned above in reverse.



When removing the card, be careful of the following:
(The [Card Lock Selector] must be set to "Free".
(Pick up the leading edge of the ID Tag Transceiver card. Removing while holding the cover section may cause damage to or failure in the card/CASSIOPEIA.

- 3) Operating the CASSIOPEIA with Application Software
After carrying out the preparatory procedures mentioned in (1) and (2), the CASSIOPEIA can be used with compatible application software. In order to operate the CASSIOPEIA with an appropriate application software, please refer to the Instruction Manual.

6. Communication Point with RFID Tag

For communicating with the tag, approach the ID Tag Transceiver card to the RFID tag as shown below.

- Coin-type RFID tag

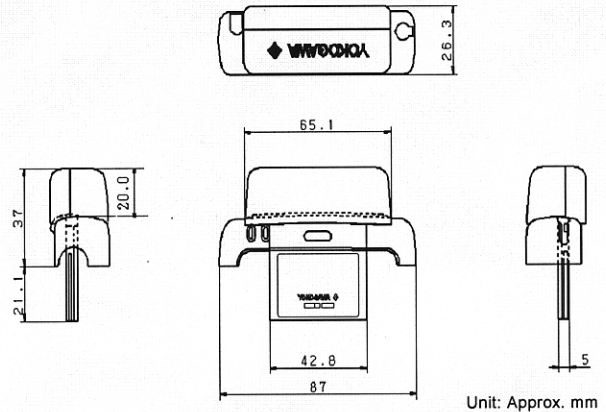


- Stick-type RFID tag



Communication distance between the card and tag may vary depending on conditions of RFID tag installation and communication.

7. Dimensions



8. Warranty

The product is warranted to conform to published specifications for a period of one (1) year from the date of delivery.

Under our general warranty policy, the defective parts are to be replaced, free of charge, for defects in workmanship or material for the applicable warranty period. Defects as a result of the following causes are not within the scope of this warranty.

- ① Inappropriate use or handling performed by customer.
- ② Modification or repair performed by party other than Yokogawa.
- ③ Floods, earthquakes, or other natural catastrophes, riots, or acts of war.

We are not responsible for any damage consequentially caused by failure in the product.



The products mentioned in this manual have not been designed and manufactured for operation under severe conditions, or use with equipment or systems.