

**ICOP-1912-ATA/1912-CF
ICOP-1913/1914-ATA**

**PC/104 One Slot PCMCIA to IDE
PC/104 One Slot Compact Flash to IDE
PC104 One Slot PCMCIA & CF to IDE
PC/104 Two Slots PCMCIA to IDE**

User' s Manual

(Version 2.1)

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Chapter 0

Startup

0.1 Packing List

Product Name	Function	Package
ICOP-1912-ATA	One Slot PCMCIA to IDE	<ul style="list-style-type: none">● ICOP-1912-ATA PC/104 One Slot PCMCIA to IDE Board● Spacer and Screw
ICOP-1912-CF	One Slot Compact Flash to IDE	<ul style="list-style-type: none">● ICOP-1912-CF PC/104 One Slot Compact Flash to IDE Board● Spacer and Screw
ICOP-1913	One Slot PCMCIA & Compact Flash to IDE	<ul style="list-style-type: none">● ICOP-1913 PC/104 One Slot PCMCIA & Compact Flash to IDE Board● Spacer and Screw
ICOP-1914-ATA	Two Slots PCMCIA to IDE	<ul style="list-style-type: none">● ICOP-1914-ATA PC/104 Two Slots PCMCIA to IDE Board● Spacer and Screw

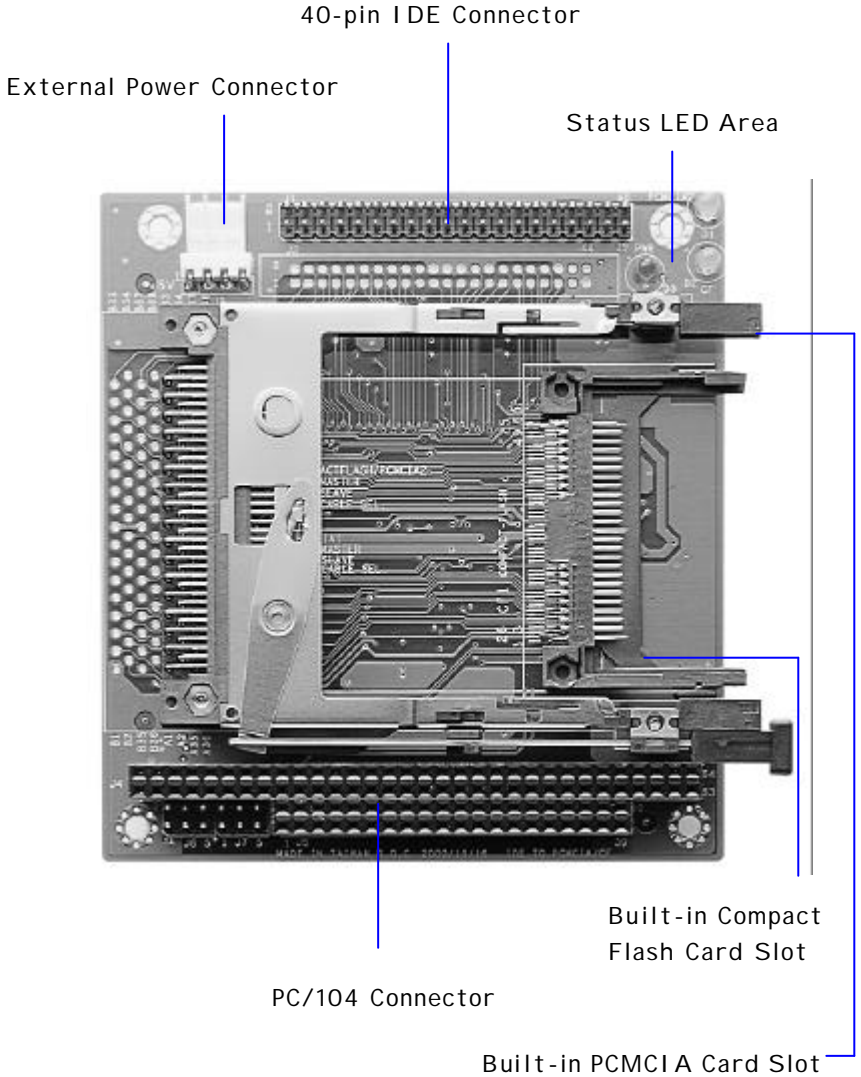
0.2 Specifications

Features	ICOP-1912-ATA	ICOP-1912-CF
PCMCIA Slot	1	0
Compact Flash Slot	0	1
PCMCIA Type	I / II / III	x
IDE Connector	2	
Power Requirement	+5V @ 0.7A	
Board Weight	100 g	
Board Size	90mm X 96 mm	
Operating Temperature	0 ~ +70° C	

Features	ICOP-1913	ICOP-1914-ATA
PCMCIA Slot	1	2
Compact Flash Slot	1	0
PCMCIA Type	I / II / III	I / II / III
IDE Connector	2	
Power Requirement	+5V @ 0.7A	
Board Weight	100 g	
Board Size	90mm X 96 mm	
Operating Temperature	0 ~ +70° C	

0.3 Component Location

ICOP-1913 (also refer to ICOP-1912-xx, 1914)



Chapter 1

Introduction

1.1 Features

There are four models in this manual. Two are PCMCIA to IDE drives (ICOP-1912-ATA & ICOP-1914-ATA), one is a CompactFlash to IDE drive (ICOP-1912-CF) and one is combine PCMCIA and CompactFlash to IDE drive (ICOP-1913).

Common Specifications

- Complies with PCMCIA v. 2.1 / JEIDA 4.1 and CompactFlash standards
- ATA / CompactFlash to IDE interface
- 40-pin IDE connector (reserved 44-pin IDE connector)
- 4-pin standard power connector
- Supports Type I/II/III ATA Flash, ATA HDD and CompactFlash cards through 68-pin PCMCIA connector or 50-pin CompactFlash connector

Power consumption (typical)

- Voltage: 5 V
- Operating voltage: 70 mA

Environmental specifications

- Operating temperature: 0° C to 70° C
- Storage temperature: -20° C to 85° C
- Relative humidity: 90%

Dimensions

- PC/104 controller card: 96 (L) x 90 (W) x 15 (H) mm

1.2 Introduction of ICOP-1912/13/14

ICOP-1912 PC/104 ATA/CompactFlash to IDE drives

The ICOP-1912 family of drives bring the convenience of PCMCIA and CompactFlash cards to industrial computer systems. PC/104 is a version of the standard PC bus designed specifically for the particular challenges of using PC technology in industrial and embedded computer systems. Both ICOP-1912-ATA/CF models conform to the standard PC/104 form factor. Connections can be made in two ways - either through the PC/104 connector or through a 4-pin compact power connector.

ICOP-1912-ATA (PC/104 ATA to IDE drive)

The ICOP-1912-ATA is a PC/104 form-factor drive that allows computers with an IDE controller to read and write PCMCIA ATA Flash, ATA hard disk and CompactFlash cards. The module converts the 68-pin PCMCIA signal to a 40-pin IDE signal.

Your computer's system BIOS will access the PCMCIA drive in the same manner as any other IDE drive. The ICOP-1912-ATA does not require the installation of a device driver (unless hot-swappable function is required) and does not need to use the operating system's card or socket services.

In order to provide additional flexibility to industrial computer system integrators, the ICOP-1912-ATA also provides a PC/104 connector. This allows it to be connected to other PC/104 modules or connected to single board computers that feature a PC/104 connector. If the ICOP-1912-ATA is connected using the PC/104 connector, there is no need to connect cables to the power connectors because power is transmitted through the PC/104 connector.

ICOP-1912-CF (PC/104 CompactFlash to IDE drive)

The ICOP-1912-CF is a PC/104 form factor drive that allows computers with an IDE controller to read and write CompactFlash cards. The module converts the 50-pin CompactFlash signal to a 40-pin IDE signal.

Your computer's system BIOS will access the CompactFlash card in the same manner as any other IDE drive. The ICOP-1912-CF does not require the installation of a device driver (unless hot-swappable function is required) and does not need to use the operating system's card or socket services.

In order to provide additional flexibility to industrial computer system integrators, the ICOP-1912-CF also provides a PC/104 connector. This allows it to be connected to other PC/104 modules or connected to single board computers that feature a PC/104 connector. If the ICOP-1912-CF is connected using the PC/104 connector, there is no need to connect cables to the power connectors because power is transmitted through the PC/104 connector.

ICOP-1914-ATA (PC/104 ATA to IDE drive)

The ICOP-1914-ATA has the same function as ICOP-1912-ATA. But, ICOP-1914-ATA comes with two slots PCMCIA to IDE interface.

ICOP-1913 (PC/104 ATA/CompactFlash to IDE drive)

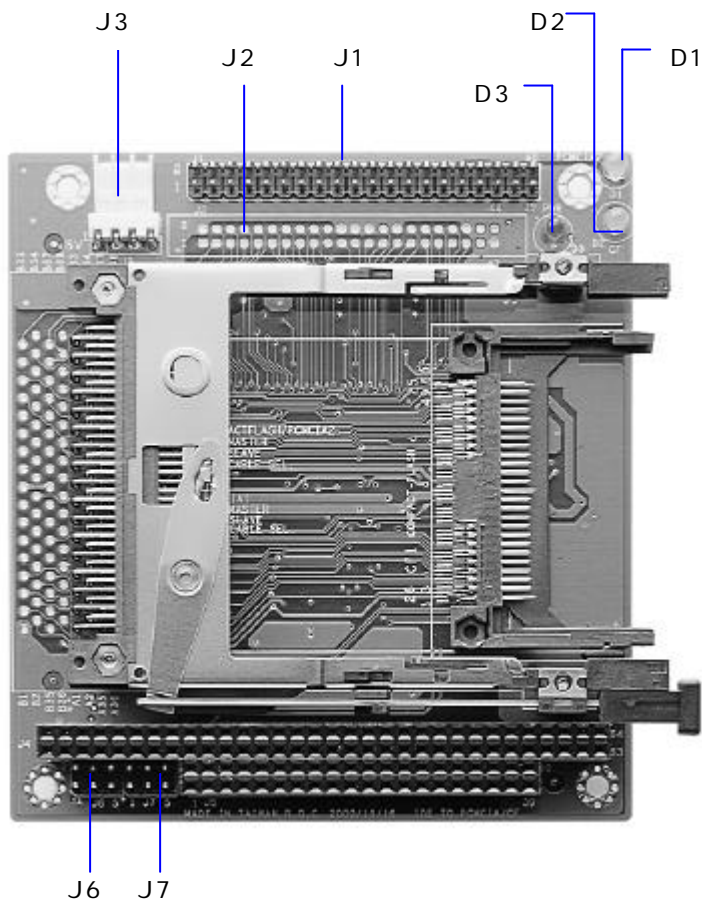
The ICOP-1913 comes with the function which combine ICOP-1912-ATA and ICOP-1912-CF together.

Chapter 2

Hardware Installation

2.1 Jumper Settings

ICOP-1913 (also refer to ICOP-1912-xx, 1914)



2.1.1 ICOP-1913 (also refer to ICOP-1912/1914)

J6 Setting Master/Slave for CF or PCMCIA 2

Pin Close	Description
1-2	Master
3-4	Slave
5-6	Select by Cable

J7 Setting Master/Slave for PCMCIA 1

Pin Close	Description
1-2	Master
3-4	Slave
5-6	Select by Cable

2.2 Connectors

2.2.1 ICOP-1913 (also refer to ICOP-1912/1914)

- J1** 40-pin IDE connector
- J2** 44-pin IDE connector
- J3** 4-pin connector for external power
- D1** Active LED
- D2** Power LED of PCMCIA Slot
- D3** Power LED of CompactFlash Slot

Warranty

This product is warranted to be in good working order for a period of one year from the date of purchase. Should this product fail to be in good working order at any time during this period, we will, at our option, replace or repair it at no additional charge except as set forth in the following terms. This warranty does not apply to products damaged by misuse, modifications, accident or disaster. Vendor assumes no liability for any damages, lost profits, lost savings or any other incidental or consequential damage resulting from the use, misuse of, or inability to use this product. Vendor will not be liable for any claim made by any other related party. Return authorization must be obtained from the vendor before returned merchandise will be accepted. Authorization can be obtained by calling or faxing the vendor and requesting a Return Merchandise Authorization (RMA) number. Returned goods should always be accompanied by a clear problem description.