ICOP-0070/0071/0072

Power Supply AC/DC PC/104 Module Power Supply DC/DC PC/104 Module Power Supply DC/DC + DIO PC/104 Module User's Manual

(Version 3.1)

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Packing List

Function	Function	Package
ICOP-0070	Power Supply AC/DC Module	 ICOP-0070 Power Supply Module 3 Pin extend cable x 1
		● ICOP-0071 Power Supply Module
ICOP-0071	Power Supply DC/DC Module	
		● ICOP-0072 Power Supply Module
ICOP-0072	Power Supply DC/DC with 24- Bit DIO Module	

Specifications

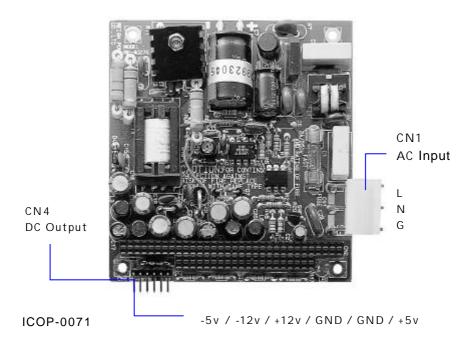
Features	ICOP-0070	COP-0070					
Power	Input voltage range : 90) ~ 264 VAC					
	Output voltage :	+5 VDC @ 2A,					
		-5 VDC @ 0.2 A,					
		+12 VDC @ 1 A,					
		-12 VDC @ 0.3 A					
	Input frequency : 47 ~ 6	3 Hz					
	Inrush current cold : 20	A @ 110VAC, 40A @ 220 VAC					
	Hold-up time : 16 ms						
	Raise time: 500 ms						
	Overload protection: po	ower limit					
	Short protection : auto-	recovery					
	MOSFET design	MOSFET design					
	Built-in line filter						
	Meets FCC, CE, TÜV						
	Meets UL478 and CS						
	Fast type FUSE 2A/250	V					
Connector	3-pin AC input						
	6-pin DC output (-5V,-	12V,+12V,GND,GND,+5V)					
Bus Interface	PC/104 standard compliant						
Dimensions	90 (L) x 96 (W) mm.						
Weight	90 g						
Operating Temperature	0 ~ +60 °C						

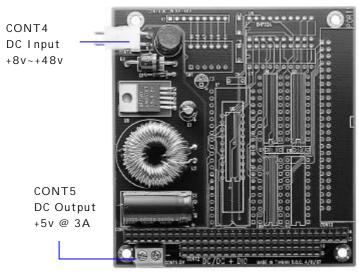
Features	ICOP-0071
Power	Input Voltage: +8V ~ +48V DC
	Output Voltage: 5V DC / 3A
	Over load protection
	Over heat protection
	Converted frequency: 52 KHz
	Converted effect: Over 80%
	Suitable for auto / truck system
Bus Interface	PC/104 standard compliant
Dimensions	90 (L) x 96 (W) mm.
Weight	90 g
Operating Temperature	-20 ~ +60 °C

Features	ICOP-0072					
Digital I/O	24 bit digital I/O lines (1 group)					
	Group emulates a 8225 PPI mode 0					
	uffered circuits for higher driving capacity than 8255					
	Output status read back					
	Pin-compatible with OPTO-22 I/O module racks					
	Transfer rate: 300 KB/sec. (typical)					
	Digital output:Logic level 0: 0.5 V max. @ 24 mA sink					
	Logic level 1: 2.0 V min. @ 15 mA source					
	Digital input: Logic level 0: 0.8 V max.					
	Logic level 1: 2.0 V min.					
Power	Input Voltage: +8V ~ +48V DC					
	Output Voltage: 5V DC / 3A					
	Over load protection					
	Over heat protection					
	Converted frequency: 52 KHz					
	Converted effect: Over 80%					
	Suitable for auto / truck system					
Bus Interface	PC/104 standard compliant					
Dimensions	90 (L) x 96 (W) mm.					
Weight	110 g					
Operating Temperature	-20 ~ +60 °C					

Component Location

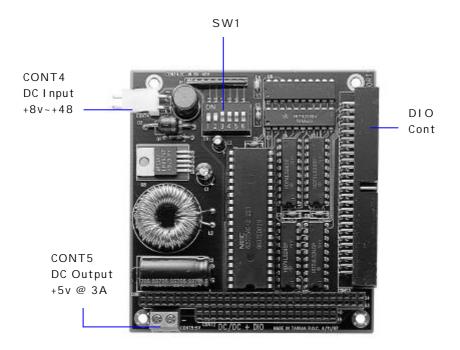
ICOP-0070





Component Location

ICOP-0072



Chapter 2 Jumper Setting

The ICOP-0072 occupies 8 consecutive I/O locations. Dip-switch SW1 sets the base address for the ICOP-0072. Be careful when selecting the base address as some settings can conflict with existing PC ports. The following table shows common examples that usually will not cause a conflict.

Base Address Setting (SW1) (ICOP-0072)

Baco / taa.		9 (. / (
Address	1	2	3	4	5	6
000-00Fh	ON	ON	ON	ON	ON	ON
010-01Fh	ON	ON	ON	ON	ON	OFF
020-02Fh	ON	ON	ON	ON	OFF	ON
030-03Fh	ON	ON	ON	ON	OFF	OFF
200-20Fh	OFF	ON	ON	ON	ON	ON
210-21Fh	OFF	ON	ON	ON	ON	OFF
300-30Fh*	OFF	OFF	ON	ON	ON	ON
3F0-3FFh	OFF	OFF	OFF	OFF	OFF	OFF

Connectors

Connector	ICOP-0070	ICOP-0071	ICOP-0072
CONT1	AC Input		
CONT2			
CONT3			Digital I/O Group 1
CONT4	DC Output	8-48VDC Input	8-48VDC Input
CONT5		5VDC Output	5VDC Output

Digital I/O

(ICOP-0072)

Mode 0 Operation

Mode 0 operation provides simple input and output operation for each of the three ports. No handshaking is required, data is simply written to or read from a specific port.

Mode 0 Basic Functional Definitions:

- Three 8-bit ports
- Any port can be input or output
- Outputs are latched
- Inputs are not latched

I/O port Assignments

Location	Write	Read
BASE+0	A0	A0
BASE+1	В0	В0
BASE+2	CO	CO
BASE+3	В0	В0
BASE+1	Mode Register for A0,B0,C0	N/A

8255 Data Registers

Base+0		Port A	10	(rea	ad/writ	e)		
Bit	7	6	5	4	3	2	1	0
Value	PA07	PA06	PA05	PA04	PA03	PA02	PA01	PA00

Base+1 Port B0			30	(rea	ad/writ				
	Bit	7	6	5	4	3	2	1	0
	Value	PB07	PB06	PB05	PB04	PB03	PB02	PB01	PB00

Base+2 Port C0			0	(rea	ad/writ			
Bit	7	7 6 5		4 3		2	1	0
Value	PC07	PC06	PC05	PC04	PC03	PC02	PC01	PC00

Base+3		Port A0,B0,C0 (write)						
Bit	7	6	5	4	3	2	1	0
Value	1	0	0	PA0	PC0	0	PB0	PC0

 $PA0 = 0 \Rightarrow Port A0 is output$

PA0 = 1 => Port A0 is input

 $PB0 = 0 \Rightarrow Port B0 is output$

PB0 = 1 => Port B0 is input

PC0 = 0 => Port C0 is output

PC0 = 1 => Port C0 is input

After power-on or reset of the module the A0, B0 and C0 ports are default set to input mode.

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 orderat any time during this period, we will, at our option, replace or repair it at noadditional charge except as set forth in the following terms. This warranty doesnot apply to products damaged by misuse, modifications, accident or disaster. Vendor assumes no liability for any damages, lost profits, lost savings or anyother incidental or consequential damage resulting from the use, misuse of, orinability to use this product. Vendor will not be liable for any claim made by anyother 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.