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USER'S MANUAL

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IE-70000-MC-IF

COMMUNICATION MODULE ADAPTER

IE-70000-MC-SV2

Document No. U11601EJ1V0UM00 (1st edition)
Date Published July 1996 P
Printed in Japan

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PREFACE

Readers

This manual is intended for user engineers who wish to design and develop application systems of the V850 family™ by using in-circuit emulator IE-70300x-MC and communication module IE-70000-MC-SV2.

Purpose

The IE-70000-MC-IF is a network module adapter to manipulate in-circuit emulator IE-70300x-MC from a host machine by using the IE-70000-MC-SV2 via ethernet™ (10BASE-T).
This manual explains the basic specifications of and how to use the IE-70000-MC-IF.

Organization

This manual is broadly divided into the following parts:

General
Installation
Appendix

How to Read This Manual

It is assumed that the readers of this manual have general knowledge on electricity, logic circuits, and microcontrollers.

To understand the overall basic specifications and usage:
-> Read this manual in the order of the Table of Contents.

To learn how to operate the IE-70300x-MC or its command functions:
-> Refer to the manual of the source debugger (optional).

To learn how to operate and install the IE-70300x-MC:
-> Refer to the manual of the in-circuit emulator (optional).

Legend

Note: Explanation of items marked with “Note” in the text
Caution: Description of points that require particular attention
Remark: Supplementary information

Related Documents Some of the related documents listed below may be preliminary versions, but are not indicated as such.

• Documents related to development tools (User's Manuals)

Product Name		Document Number
IE-703000-MC-A (in-circuit emulator)		U10887E
IE-703002-MC (in-circuit emulator)		U11595E
IE-703003-MC (in-circuit emulator)		U11596E
IE-70000-MC-IF (communication module adapter)		This manual
CA850 (C compiler package)	Operation - UNIX™-based	U11013E
	Operation - Windows™-based	U11068E
	C language	U11010E
	Assembly language	U10543E
ID850 (source debugger)	Operation - Windows-based	Planned
	Installation - Windows-based	Planned
RX850 (real-time OS)	Fundamentals	U11037E
	Nucleus installation	U11038E
	Debugger - Windows-based	U11158E
	Technical	U11117E
AZ850 (system performance analyzer)	Operation	U11181E

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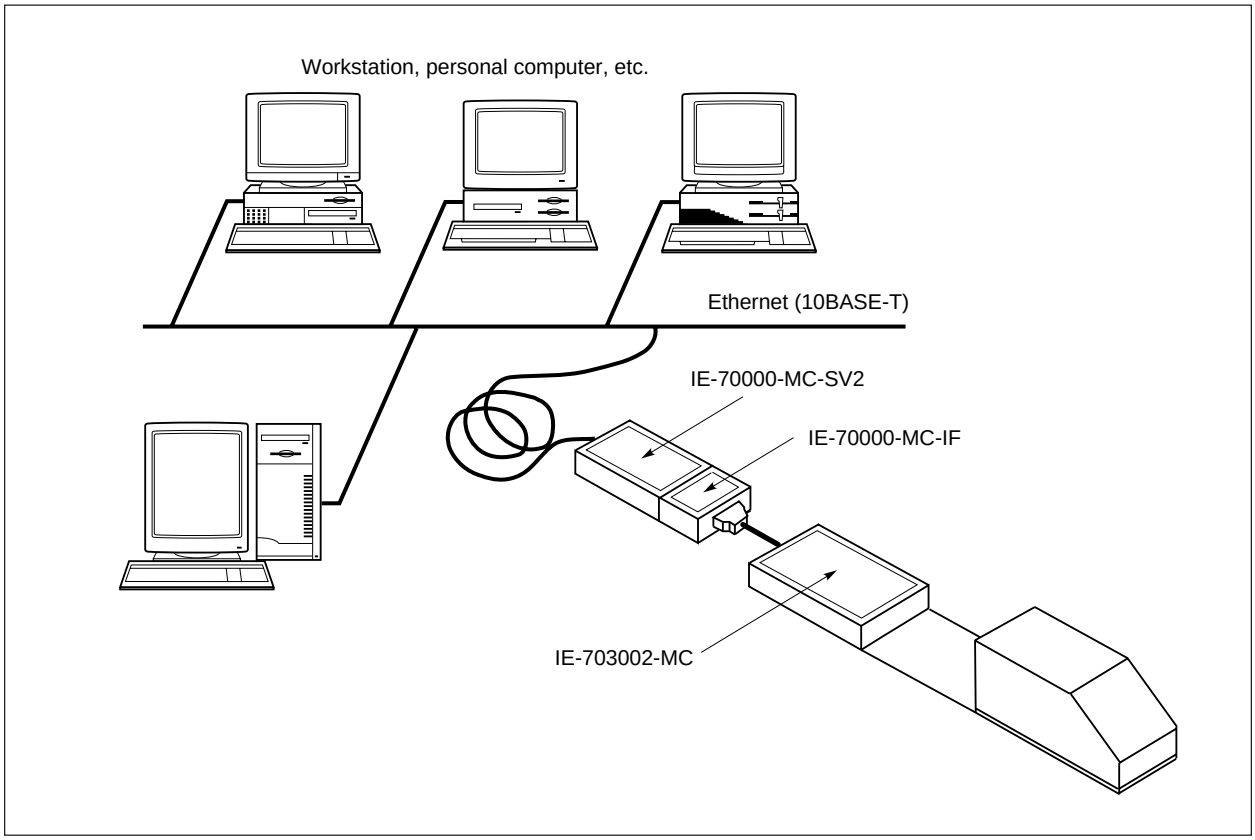
CHAPTER 1 GENERAL

The IE-70000-MC-IF communication module adapter is required for using the IE-70000-MC-SV2 communication module with a V850 family in-circuit emulator, such as the IE-703000-MC-A, IE-703002-MC, and IE-703003-MC.

By using the IE-70000-MC-SV2, the in-circuit emulator of the V850 family, which has been conventionally controlled by using a personal computer and an interface board, can be controlled by a workstation or personal computer via Ethernet (10BASE-T).

Figure 1-1 shows an example of system configuration using the IE-70000-MC-IF.

Figure 1-1. Example of System Configuration Using IE-70000-MC-IF



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CHAPTER 2 INSTALLATION

2.1 Unpacking

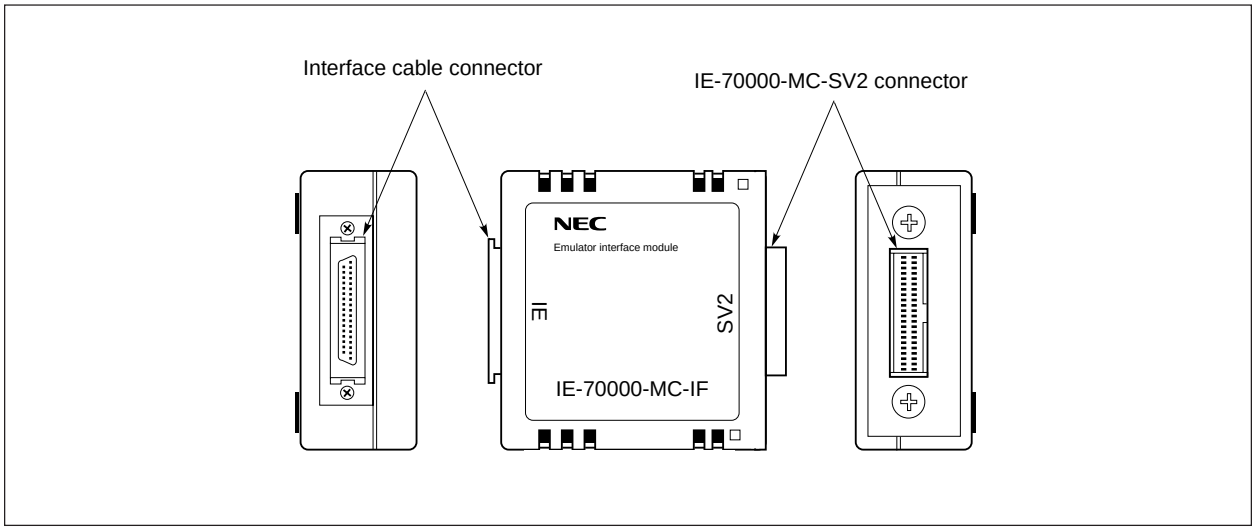
Confirm that the following items are contained in the carton box of the IE-70000-MC-IF when unpacking the box.

(1) IE-70000-MC-IF (communication module adapter): 1
(2) User's manual: 1
(3) Warranty: 1

2.2 Appearance

Figure 2-1 shows the appearance of the IE-70000-MC-IF.

Figure 2-1. Appearance of IE-70000-MC-IF



2.3 Connection

Figure 2-2 illustrates how to connect the IE-70000-MC-IF. Before making connections, be sure to turn off its power.

<1> Connecting in-circuit emulator and IE-70000-MC-IF

Connect the interface cable (accessory) of the in-circuit emulator to the connected marked “IE” of the IE-70000-MC-IF (refer to **<1>** in Figure 2-2).

<2> Connecting IE-70000-MC-IF and IE-70000-MC-SV2

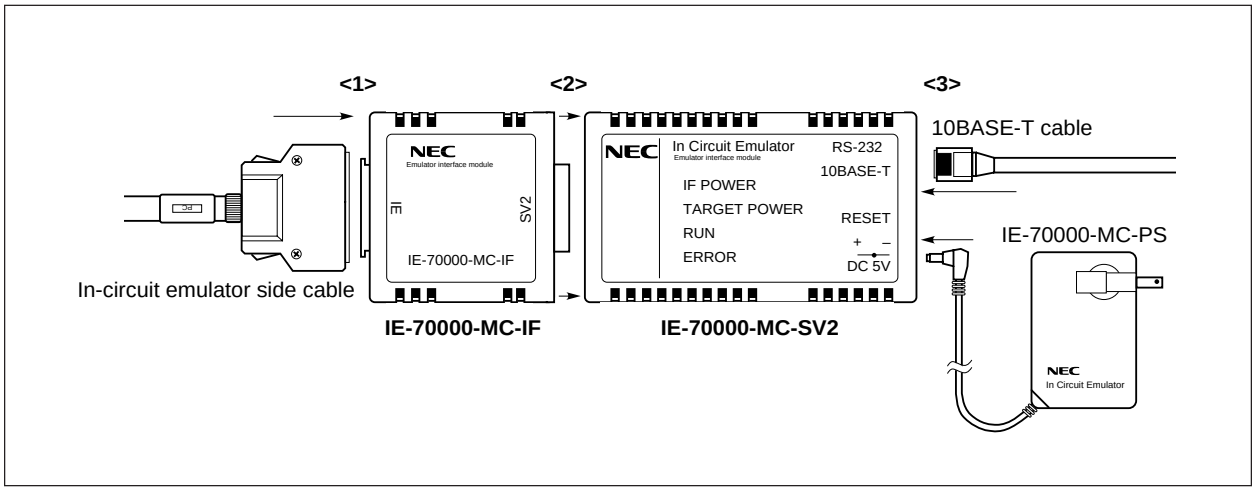
Connect the blue connector marked “SV2” of the IE-70000-MC-IF to the blue connector of the IE-70000-MC-SV2 (refer to **<2>** in Figure 2-2).

Caution Because the IE-70000-MC-SV2 and IE-70000-MC-IF are connected directly by their connectors, the vertical strength of the connection is relatively low. Therefore, make sure that no excessive force is applied to the IE-70000-MC-SV2 and IE-70000-MC-IF, especially to their connection; otherwise, the IE-70000-MC-SV2 and IE-700000-MC-IF may be damaged or faulty contact may occur.

<3> Connecting IE-70000-MC-SV2, 10BASE-T cable, and IE-70000-MC-PS

For how to connect each part, refer to the User’s Manual of the IE-70000-MC-SV2 (refer to **<3>** in Figure 2-2).

Figure 2-2. Connections of IE-70000-MC-IF



2.4 Power-up/down Sequence

After making connections, turn on the power. Be sure to turn the power on/off in the following sequence.

(1) Power-up sequence

<1> Turn on the power to the IE-70000-MC-SV2. This will also automatically supply power to the IE-70000-MC-IF.

<2> Turn on the power to the in-circuit emulator.

<3> Turn on the power to the target system.

(2) Power-down sequence

<1> Turn off the power to the target system.

<2> Turn off the power to the in-circuit emulator.

<3> Turn off the power to the IE-70000-MC-SV2. This will also automatically turn off the power to the IE-70000-MC-IF.

[MEMO]

APPENDIX A CONNECTOR SPECIFICATIONS

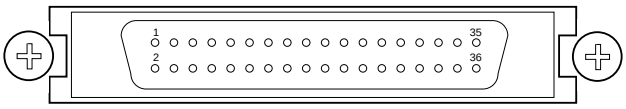
A.1 Interface Cable Connector

Figure A-1 shows the interface cable connector of the IE-70000-MC-IF.

• PCS-E36LMD (Honda Communication Industries)

Figure A-1. Interface Cable Connector (PCS-E36LMD)

HONDA PCS-E36LMD



No.	1	3	5	7	9	11	13	15	17	19	21	23	25	27	29	31	33	35
Name	INT	GND	D0	GND	D1	GND	D2	GND	D3	GND	D4	GND	D5	GND	D6	GND	D7	GND

No.	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36
Name	GND	GND	A0	GND	A1	GND	A2	GND	R/W	GND	READY	GND	RD	GND	WR	GND	RESET	GND

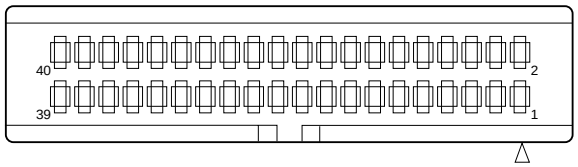
A.2 IE-70000-MC-SV2 Connector

Figure A-2 shows the IE-70000-MC-SV2 connector of the IE-70000-MC-IF

- NFS-40A-1314 (Yamaichi Electric)

Figure A-2. IE-70000-MC-SV2 Connector (NFS-40A-1314)

NFS-40A-1314

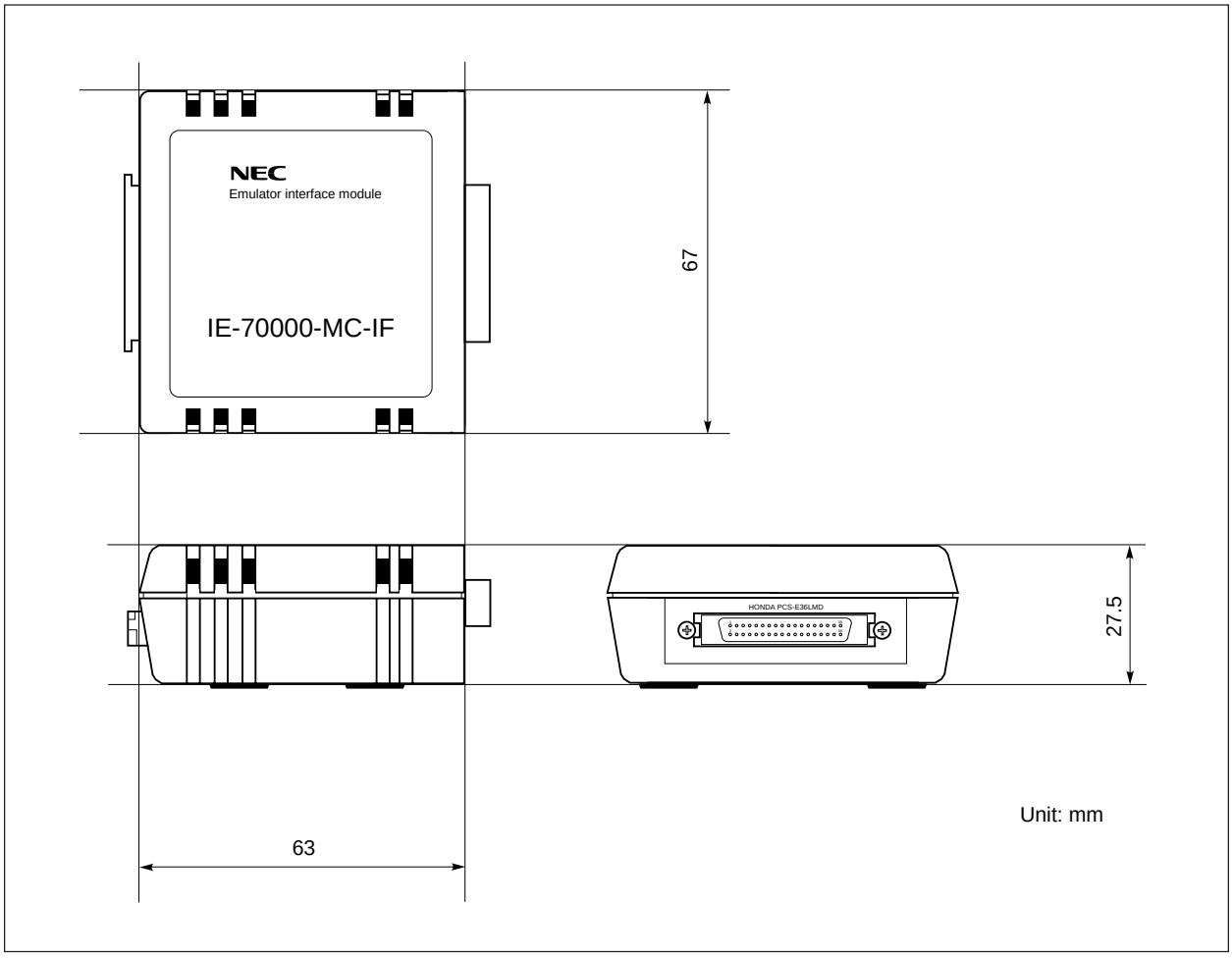


No.	40	38	36	34	32	30	28	26	24	22	20	18	16	14	12	10	8	6	4	2
Name	ALEN	ME/$\overline{IO}$	$\overline{WR}$	$\overline{RD}$	S15	S14	S13	S12	S11	S10	S9	S8	S7	S6	S5	S4	S3	S2	S1	S0

No.	39	37	35	33	31	29	27	25	23	21	19	17	15	13	11	9	7	5	3	1
Name	GND	GND	GND	GND	+5 V	GND	GND	GND	GND	+5 V	GND	GND	GND	GND	+5 V	GND	GND	GND	GND	+5 V

APPENDIX B DIMENSIONS

Figure B-1. Dimensions of IE-70000-MC-IF



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