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April 1st, 2010
Renesas Electronics Corporation

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Renesas Technology Corp.
Customer Support Dept.
April 1, 2003

SH7410 Evaluation Chip Board (HS7410EBK82H) for the E8000 Emulator User's Manual

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IMPORTANT INFORMATION

READ FIRST

- **READ** this user's manual before using this evaluation chip board (hereafter referred to as the EV-chip board) for Hitachi microcomputer HD6437410.
- **KEEP the user's manual handy for future reference.**

Do not attempt to use the EV-chip board until you fully understand its mechanism.

EV-Chip Board:

Throughout this document, the term "EV-chip board" shall be defined as the following products produced only by Hitachi, Ltd. excluding all subsidiary products.

- EV-chip board
- Device control board

The user system or a host computer is not included in this definition.

Purpose of the EV-Chip Board:

This EV-chip board is a software and hardware development tool for systems employing the Hitachi microcomputer HD6437410 (hereafter referred to as SH7410). The E8000 emulator and the user system can be connected through the EV-chip board. This EV-chip board must only be used for the above purpose.

Improvement Policy:

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Target User of the EV-Chip Board:

This EV-chip board should only be used by those who have carefully read and thoroughly understood the information and restrictions contained in the user's manual. Do not attempt to use the EV-chip board until you fully understand its mechanism.

It is highly recommended that first-time users be instructed by users that are well versed in the operation of the EV-chip board.

LIMITED WARRANTY

Hitachi warrants its EV-chip boards to be manufactured in accordance with published specifications and free from defects in material and/or workmanship. Hitachi, at its option, will repair or replace any EV-chip boards returned intact to the factory, transportation charges prepaid, which Hitachi, upon inspection, determine to be defective in material and/or workmanship. The foregoing shall constitute the sole remedy for any breach of Hitachi's warranty. See the Hitachi warranty booklet for details on the warranty period. This warranty extends only to you, the original Purchaser. It is not transferable to anyone who subsequently purchases the EV-chip board from you. Hitachi is not liable for any claim made by a third party or made by you for a third party.

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The Warranty is Void in the Following Cases:

Hitachi shall have no liability or legal responsibility for any problems caused by misuse, abuse, misapplication, neglect, improper handling, installation, repair or modifications of the EV-chip board without Hitachi's prior written consent or any problems caused by the user system.

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Figures:

Some figures in this user's manual may show items different from your actual system.

Limited Anticipation of Danger:

Hitachi cannot anticipate every possible circumstance that might involve a potential hazard. The warnings in this user's manual and on the EV-chip board are therefore not all inclusive. Therefore, you must use the EV-chip board safely at your own risk.

SAFETY PAGE

READ FIRST

- **READ** this user's manual before using this EV-chip board.
- **KEEP the user's manual handy for future reference.**

Do not attempt to use the EV-chip board until you fully understand its mechanism.

DEFINITION OF SIGNAL WORDS

DANGER indicates an **imminently** hazardous situation which, **if not avoided**, will result in **DEATH** or **SERIOUS INJURY** to you or other people.

WARNING indicates a **potentially** hazardous situation which, **if not avoided**, could result in **DEATH** or **SERIOUS INJURY** to you or other people.

CAUTION indicates a hazardous situation which, **if not avoided**, may result in **minor or moderate injury** to you or other people, or may result in **damage to the machine** or **loss of the user program**. It may also be used to alert against unsafe usage.

NOTE emphasizes essential information.



WARNING

Observe the precautions listed below. Failure to do so will result in a FIRE HAZARD and will damage the user system and the EV-chip board or will result in PERSONAL INJURY. The USER PROGRAM will be LOST.

- 1. Always switch OFF the emulator and user system before connecting or disconnecting any CABLES or PARTS.**
- 2. Always before connecting, make sure that pin 1 on both sides is correctly aligned.**

Warnings on EV-Chip Board Usage

Warnings described below apply as long as you use the EV-chip board. Be sure to read and understand the warnings below before using the EV-chip board. Note that these are the main warnings, not the complete list.



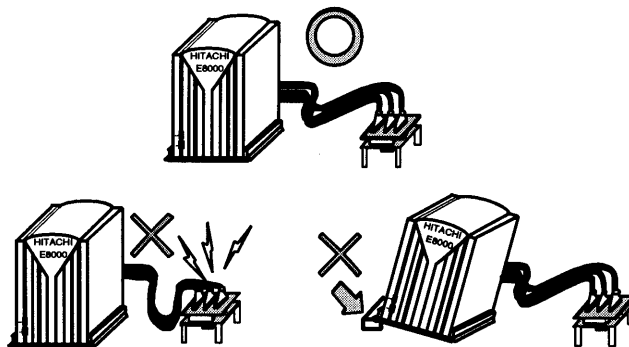
WARNING

Always switch OFF the emulator and user system before connecting or disconnecting any CABLES or PARTS. Failure to do so will result in a FIRE HAZARD and will damage the user system and the EV-chip board or will result in PERSONAL INJURY. The USER PROGRAM will be LOST.



WARNING

Place the emulator station and EV-chip board so that the cable is not bent or twisted. A bent or twisted cable will impose stress on the user interface leading to connection or contact failure. Make sure that the emulator station is placed in a secure position so that it does not move during use nor impose stress on the user interface.



Preface

This manual describes how to connect and operate the EV-chip board. The EV-chip board incorporates an evaluation chip for connection to a user system that uses the SH7410 with the E8000 emulator.

Read and understand Sec. 3, "Preparation before Use" of the E8000 Emulator User's Manual before using this EV-chip board.

CAUTION

The EV-chip board is only for connection to a user system that uses the SH7410 with the E8000 emulator. It cannot be used for user systems that target other devices.

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Contents

Section 1	Components	1
1.1	EV-Chip Board Components	1
1.2	Component Names	2
Section 2	Preparation before Use	3
2.1	Preparing the User System	3
2.1.1	Recommended Mounting Pad Dimensions of the User System	6
2.1.2	Connector Position on the User System	7
Section 3	Connecting the EV-Chip Board to the User System	9
3.1	Connecting the EV-Chip Board to the User System	9
3.1.1	Connecting the Specified Connector	9
3.1.2	Connecting the Trace Cables to the EV-Chip Board	10
3.1.3	Connecting the EV-Chip Board to the User System Board	13
Figures		
Figure 1.1	EV-Chip Board	2
Figure 2.1	Recommended Mounting Pad Dimensions	6
Figure 2.2	Connector Position on the User System (Top View)	8
Figure 2.3	Component Height Restriction	8
Figure 3.1	Connecting Trace Cables to the EV-Chip Board	12
Figure 3.2	Connecting the EV-Chip Board to the User System	14
Tables		
Table 1.1	EV-chip Board Components	1
Table 2.1	Pin Assignment of the HS7410EBK82H User Interface (I1)	4
Table 2.2	Pin Assignment of the HS7410EBK82H User Interface (I2)	5

Section 1 Components

1.1 EV-Chip Board Components

Table 1.1 lists the product components of the EV-chip board (HS7410EBK82H: 2 x 100-pin connector type). Check all the components after unpacking.

Table 1.1 EV-chip Board Components

Item	Quantity	Remarks
EV-chip board (HS7410EBK82H)	1	Consists of two boards. <ul style="list-style-type: none">• HS7410PWB20H (for connecting to the E8000 station)• HS7410PWB40H (2 x 100-pin connector)

Note: Use the specific connector (FX2-100P-1.27SVL manufactured by HIROSE ELECTRIC CO., LTD.) on the user system that is connected to the HS7410EBK82H.

1.2 Component Names

The component names of the EV-chip board are described below.

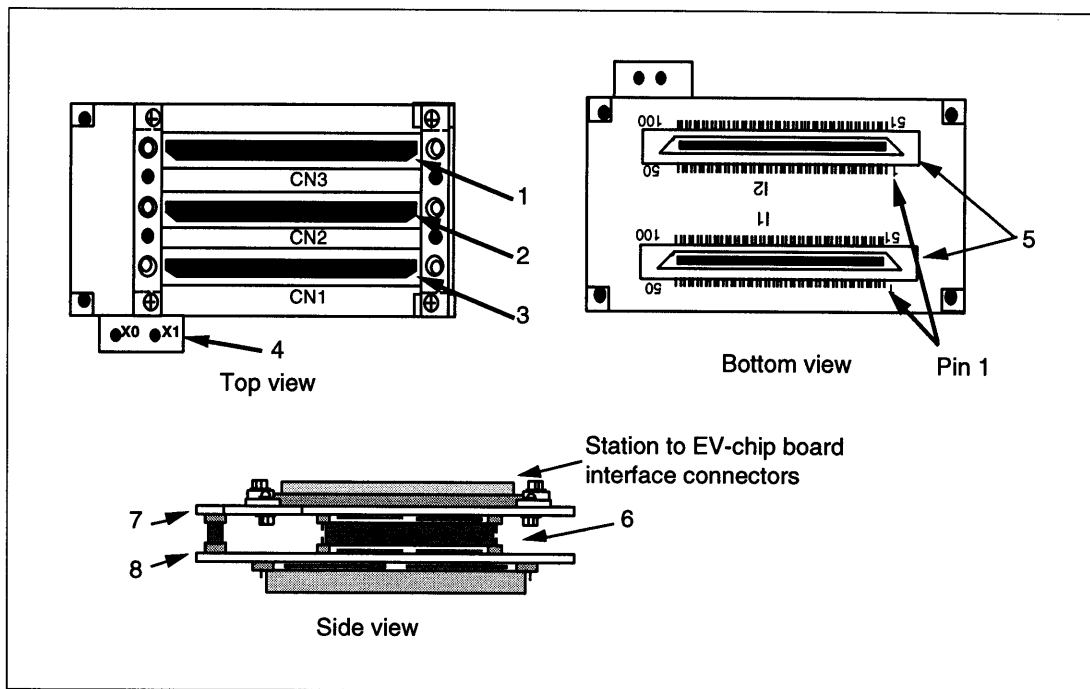


Figure 1.1 EV-Chip Board

- | | |
|--|--|
| 1. Station to EV-chip board interface connector CN3: | For trace cable 3 which connects the E8000 station to the EV-chip board. |
| 2. Station to EV-chip board interface connector CN2: | For trace cable 2 which connects the E8000 station to the EV-chip board. |
| 3. Station to EV-chip board interface connector CN1: | For trace cable 1 which connects the E8000 station to the EV-chip board. |
| 4. Crystal oscillator terminals: | For installing a crystal oscillator to be used as a clock source for the SH7410. |
| 5. User-system connector: | For connecting the user system. |
| 6. Board connector: | For connecting HS7410PWB20H and HS7410PWB40H. |
| 7. HS7410PWB20H: | Includes connectors for interfacing with the E8000 station via trace cables. |
| 8. HS7410PWB40H: | Includes connectors for interfacing with the user system. |

Section 2 Preparation before Use

2.1 Preparing the User System

Table 2.1 lists the user interface pin assignment of the specific connector (FX2-100P-1.27SVL manufactured by HIROSE ELECTRIC CO., LTD.) when the target MCU is the SH7410.

Table 2.1 Pin Assignment of the HS7410EBK82H User Interface (I1)

Pin No.	Pin Name	Pin No.	Pin Name	Pin No.	Pin Name
1	GND	35	GND	69	GND
2	GND	36	SRS0/PA1	70	DREQ0
3	CAS3	37	SRS1/PA0	71	MD0
4	CAS2	38	GND	72	GND
5	GND	39	RXD1/PB13	73	MD3
6	BS	40	TXD1/PB12	74	MD4
7	RDWR	41	GND	75	GND
8	GND	42	TXD0/PB9	76	SRXD2/PA15
9	CS1	43	SCK0	77	SRCK2/PA14
10	CS0	44	GND	78	GND
11	GND	45	FTI2/PB6	79	STCK2/PA11
12	WE3	46	FTC1/PB5	80	STS2/PA10
13	WE2	47	GND	81	GND
14	GND	48	FTC0/PB2	82	SRS1/PA7
15	BACK	49	FTOA0/PB1	83	STXD1/PA6
16	BREQ	50	GND	84	GND
17	GND	51	Not connected	85	SRXD0/PA3
18	DACK0	52	UVCC	86	SRCK0/PA2
19	DREQ1	53	Not connected	87	GND
20	GND	54	GND	88	STCK0/PB15
21	MD1	55	CAS1	89	STS0/PB14
22	MD2	56	CAS0	90	GND
23	GND	57	GND	91	SCK1/PB11
24	MD5	58	CS3	92	RXD0/PB10
25	Not connected	59	CS2	93	GND
26	GND	60	GND	94	FTC2/PB8
27	SRS2/PA13	61	WAIT	95	FTOA2/PB7
28	STXD2/PA12	62	RD	96	GND
29	GND	63	GND	97	FTOA1/PB4
30	SRXD1/PA9	64	WE1	98	FTI1/PB3
31	SRCK1/PA8	65	WE0	99	GND
32	GND	66	GND	100	FTI0/PB0
33	STCK1/PA5	67	IVECF		
34	STS1/PA4	68	DACK1		

Table 2.2 Pin Assignment of the HS7410EBK82H User Interface (I2)

Pin No.	Pin Name	Pin No.	Pin Name	Pin No.	Pin Name
1	GND	35	GND	69	GND
2	A1	36	D22	70	EXTAL
3	A3	37	D20	71	GND
4	A4	38	D19	72	TRST
5	A6	39	D17	73	GND
6	GND	40	GND	74	CLK
7	A9	41	D14	75	GND
8	A11	42	D12	76	RST
9	A12	43	D11	77	GND
10	A14	44	D9	78	IRQ1
11	GND	45	GND	79	GND
12	A17	46	D6	80	IRQ3
13	A19	47	D4	81	D31
14	A20	48	D3	82	D29
15	A22	49	D1	83	GND
16	GND	50	GND	84	D26
17	Not connected	51	GND	85	D24
18	GND	52	A0	86	D23
19	Not connected	53	A2	87	D21
20	GND	54	GND	88	GND
21	Not connected	55	A5	89	D18
22	GND	56	A7	90	D16
23	Not connected	57	A8	91	D15
24	GND	58	A10	92	D13
25	NMI	59	GND	93	GND
26	GND	60	A13	94	D10
27	IRQ0	61	A15	95	D8
28	GND	62	A16	96	D7
29	IRQ2	63	A18	97	D5
30	GND	64	GND	98	GND
31	D30	65	A21	99	D2
32	D28	66	A23	100	D0
33	D27	67	GND		
34	D25	68	Not connected		

2.1.1 Recommended Mounting Pad Dimensions of the User System

Figure 2.1 shows the dimensions of the recommended mounting pad (footprint) and positioning holes for the specific connector (FX2-100P-1.27SVL) manufactured by HIROSE ELECTRIC CO., LTD. The dimension tolerance is ± 0.1 mm unless otherwise specified.

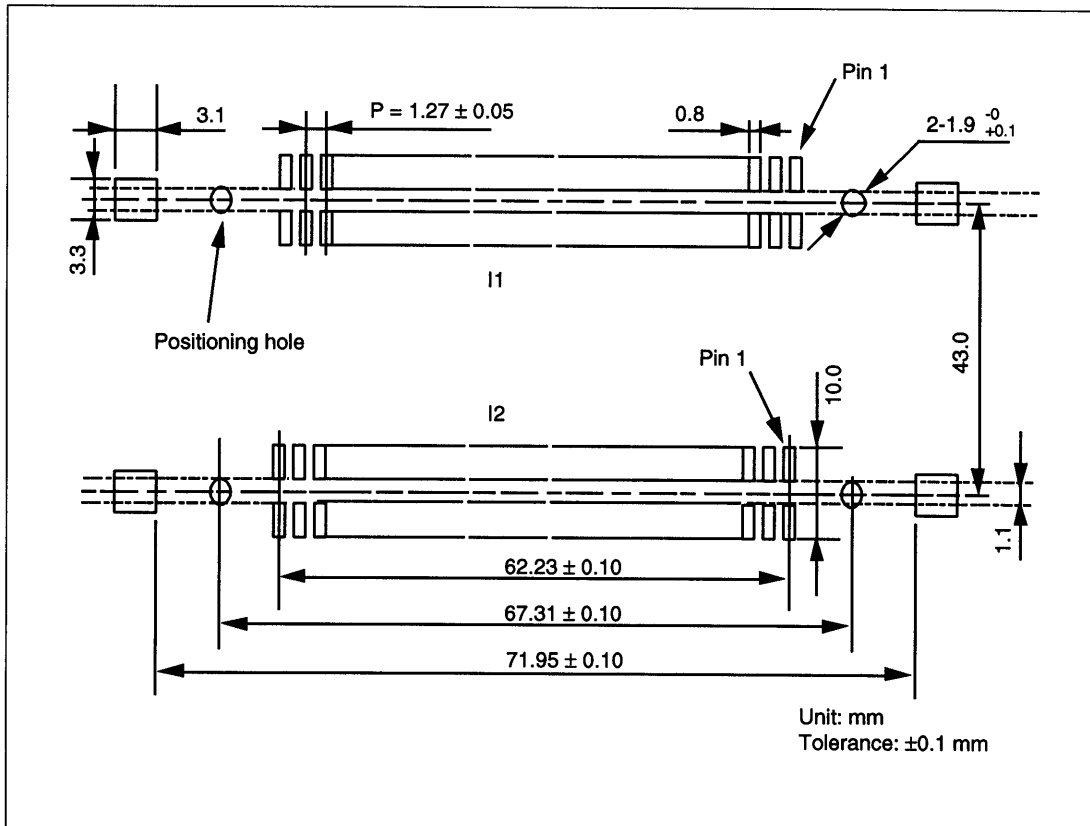


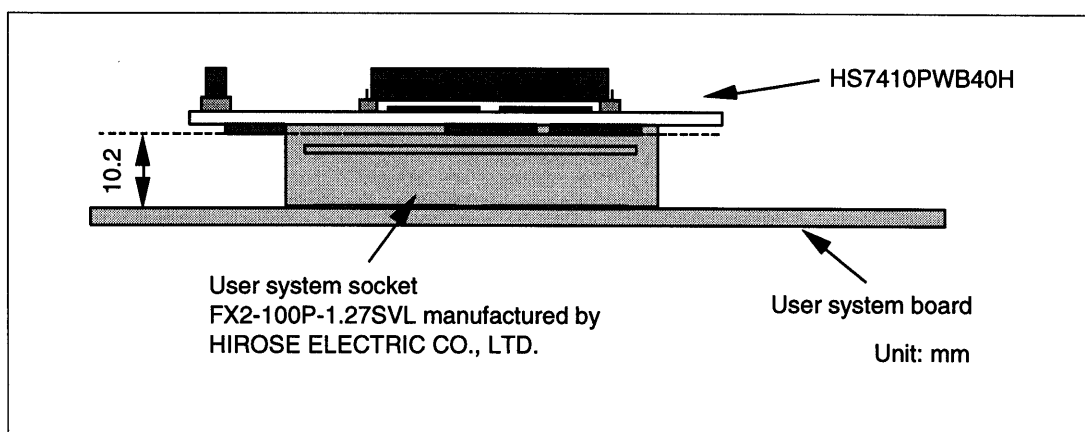
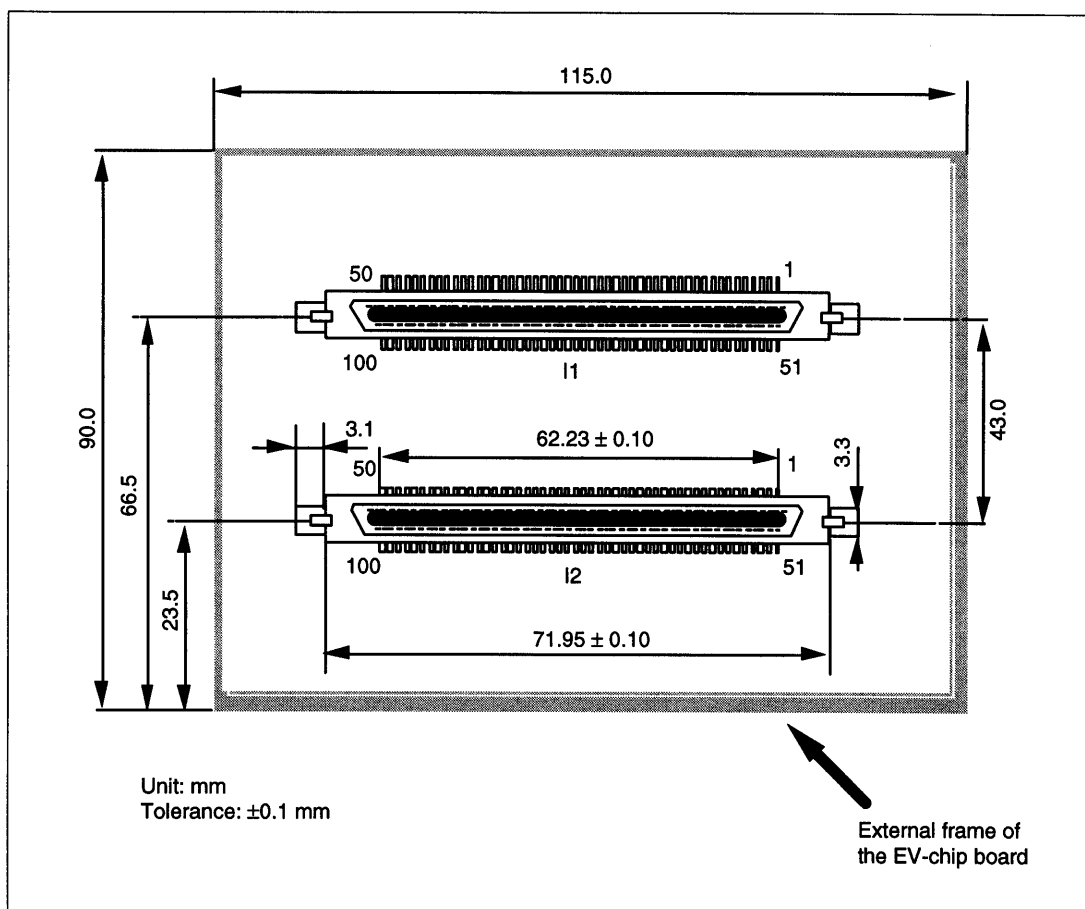
Figure 2.1 Recommended Mounting Pad Dimensions

2.1.2 Connector Position on the User System

CAUTION

Before connecting the connectors (FX2-100P-1.27SVL) to the user system, check the location of pin 1 and the connector shapes as shown in figures 2.1 and 2.2. If the connector direction is incorrect, the EV-chip board cannot be connected to the user system.

Figure 2.2 shows the direction of the connectors (FX2-100P-1.27SVL) on the user system. Comply with the user system component height restriction shown in Figure 2.3 within the external frame of the EV-chip board shown in Figure 2.2.



Section 3 Connecting the EV-Chip Board to the User System

3.1 Connecting the EV-Chip Board to the User System

3.1.1 Connecting the Specified Connector

This EV-chip board is designed exclusively for the specific connector (type number: FX2-100P-1.27SVL) manufactured by HIROSE ELECTRIC CO., LTD. Therefore, it cannot be used with other connectors.

- Positioning the IC socket

The connector FX2-100P-1.27SVL has two positioning pins. Insert the positioning pins of the connector into the positioning holes of the user system board. Apply an epoxy adhesive to the tips of the positioning pins of the connector to bond the connector to the user system board.

CAUTION

Before connecting the connectors to the user system, check the location of pin 1 on both sides and the connector shapes (I1 and I2).

- Mounting the connectors

Solder the FX2-100P-1.27SVL onto the user system. Use more solder than usual so that a fillet is formed on the lead edge being soldered.

3.1.2 Connecting the Trace Cables to the EV-Chip Board



WARNING

Always switch OFF the emulator and user system before connecting or disconnecting any CABLES or sockets. Failure to do so will result in a FIRE HAZARD and will damage the user system and the emulator or will result in PERSONAL INJURY. The USER PROGRAM will be LOST.

- EV-chip board condition at shipment

The EV-chip board is shipped with the HS7410PWB20H and HS7410PWB40H connected to each other. When connecting the EV-chip board to the user system, do not separate the HS7410PWB20H from the HS7410PWB40H.

CAUTION

Before connecting the EV-chip board to the user system, confirm that the HS7410PWB20H and HS7410PWB40H are firmly connected by lightly pushing the board.

- Connecting the trace cables to the E8000 station

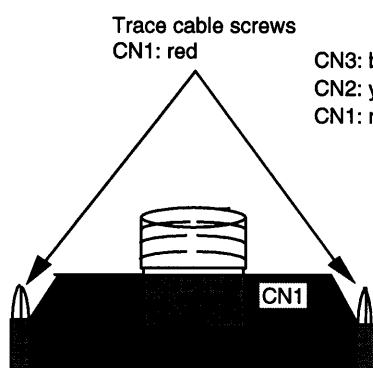
Before connecting the trace cables to the HS7410PWB20H, connect the trace cables to the E8000 station.

Note: At shipment, trace cables CN2 and CN3 to be connected to the E8000 station are bound into a bundle, and trace cables CN1, CN2, and CN3 to be connected to the EV-chip board are bound into a bundle to prevent an insertion error. For more information on connecting the EV-Chip board to the E8000 station, refer to section 3.2.2, Connecting the EV-Chip Board, in the SH7410 E8000 Emulator User's Manual.

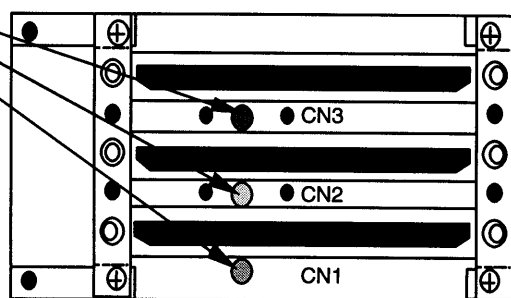
- Connecting the trace cables to the EV-chip board
Align the trace cables with the station to EV-chip board interface connectors CN1, CN2, and CN3 on the EV-chip board. Confirm that each trace cable connected to a connector on the E8000 station is also connected to its corresponding station to EV-chip board interface connector on the EV-chip board. For the prevention of insertion errors, colors are specified on the trace cable connectors and the corresponding EV-chip board interface connectors (CN1: red, CN2: yellow, CN3: blue).

CAUTION

For the prevention of insertion errors, colors are specified on the trace cable connectors and the corresponding EV-chip board interface connectors.



CN3: blue
CN2: yellow
CN1: red



Top view of the HS7410PWB20H

Tighten the screws to connect the trace cable connectors to the station to EV-chip board interface connectors while holding the HS7410PWB40H securely.

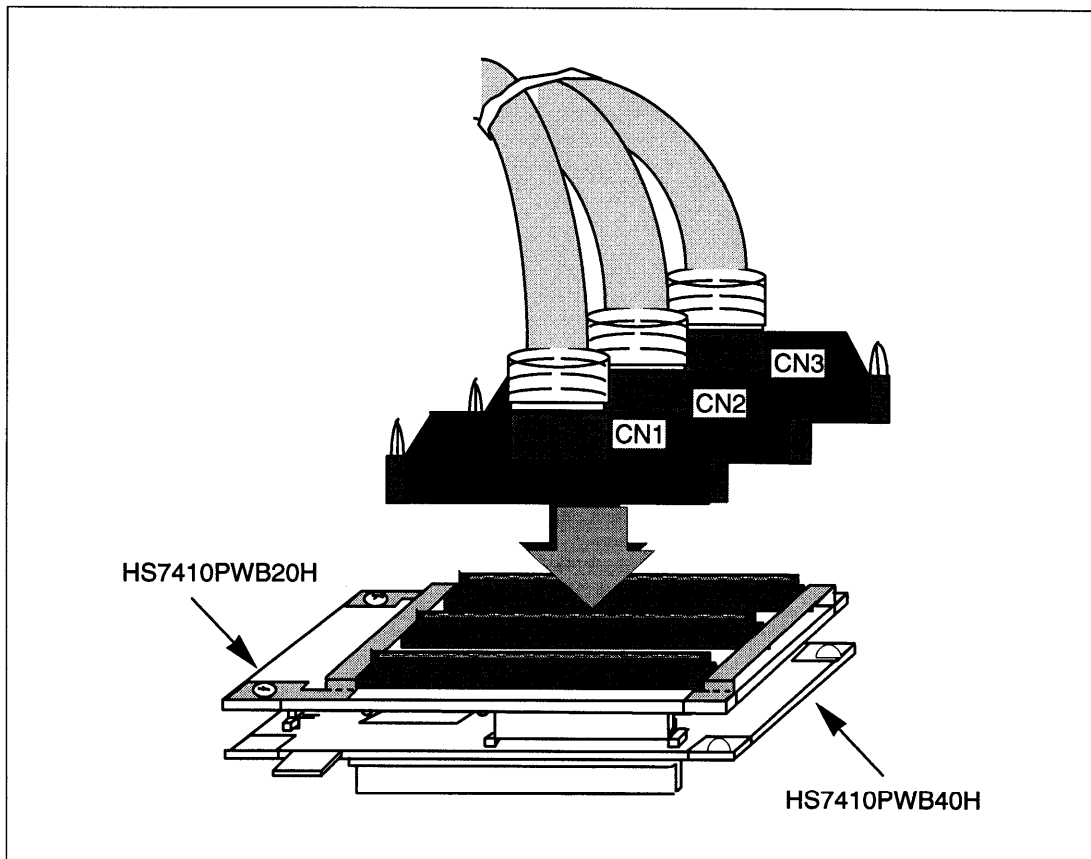


Figure 3.1 Connecting Trace Cables to the EV-Chip Board



WARNING

Make sure the connector shapes and numbers are correctly matched when connecting the trace cables to the station to EV-chip board interface connectors. Failure to do so will result in a FIRE HAZARD.

3.1.3 Connecting the EV-Chip Board to the User System Board

- Connecting the EV-chip board to the user system board

Check the location of the FX2-100P-1.27SVL on the user system. Align the connectors on the HS7410PWB40H of the EV-chip board with those on the user system board, and insert the connectors.

CAUTION

Forcefully connecting the EV-chip board will apply stress to the soldered connectors on the user system, causing cracks in the solder. Gradually push the EV-chip board repeatedly so that no cracks occur in the soldered section of the connectors.

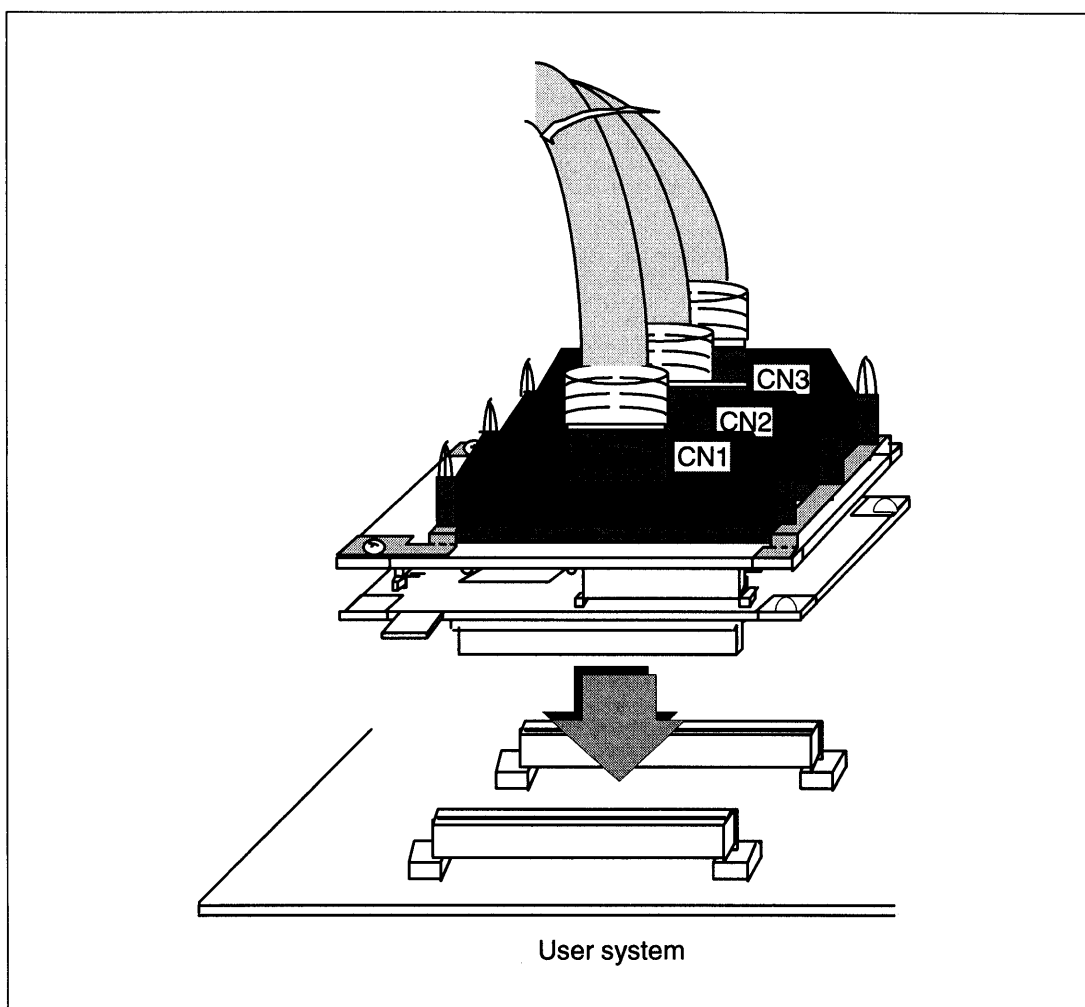


Figure 3.2 Connecting the EV-Chip Board to the User System