

NEC Express Server
Express5800 Series

Express5800/1080Xd

User's Guide

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Names used in sample applications are all fictitious, having no relations to existing product, organization, and individual names.

<Purpose of Use of This Product>

Since this product has high-speed processing performance, it is on the list of the Japanese government guideline for peaceful use of computers.

When using this product, note the following points.

1. Place this product on a site where there is no danger of illegal intrusion and robbery.
2. Control accesses to this product using a password or other protection tools.
3. If there may be a possibility of accesses regarding the development of mass-destruction weapons or missiles, inform to our consultation sections.
4. If illegal usage is found, immediately inform our consultation sections.

Our consultation section: First Contact Center
Tel 03- 3455- 5800

Note

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

Products Conformance to the Japanese Guideline for Reduction of Harmonic Emission

This product conforms to the Japanese Guideline for Reduction of Harmonic Emission for home electrical appliances and general electrical products enacted by the Ministry of Economy, Trade, and Industry.

Momentary voltage drop prevention

This product may be affected by a momentary voltage drop caused by lightning. To prevent a momentary voltage drop, an AC uninterruptible power supply (UPS) unit should be used.

Laser Safety

This product includes Class 1 laser products based on JIS C6802, EN60825, IEC825 and FDA21CFR chapter1 subchapter J.

Note) Class 1 laser is laser that is defined by JIC6802, EN60825, IEC825 and FDA 21CFRas the laser imposing no harmful influences on human health when exposed.

The following label is affixed.

<p>Class 1 Laser Product CLASS 1 LASER PRODUCT PER IEC825 LASER KLASSE 1 NACH IEC825 PRODUCTO LASER DE CLASE 1 Complies with 21CFR chapter 1, Subchapter J</p>

Exporting

This product including software may be classified into limited products or service that is controlled in Foreign Exchange and Foreign Trade Control Law. In this case, an export permission from the government is required. If documents are needed for exporting this product, please contact with our sales office.

Conformance to FCC regulations

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules.

This equipment may cause radio interference when used at home.

In such cases, user is required to take measures against interference.

Cautions

- (1) No part of this manual may be reproduced in any form without the prior written permission of NEC Corporation.
- (2) The contents of this use's guide may be revised without prior notice.
- (3) The contents of this User's Guide shall not be copied or altered without the prior written permission of NEC Corporation.
- (4) All efforts have been made to ensure the accuracy of all information in this User's Guide. If you notice any part unclear, incorrect, or omitted in this User's Guide, contact the sales agent where you purchased this product.
- (5) NEC assumes no liability arising from the use of this product, nor any liability for incidental or consequential damages arising from the use of this User's Guide regardless of Item (4).

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Operators who use this product should put this manual near the product in order to refer to it quickly when necessary. Always read Directions for Safe Use carefully.


Directions for Safe Use: Be sure to read this!

Necessary information for safely operating the Express Server is included.







Indications Regarding Safety Instructions

To safely use the Express 5800 Series, follow these instructions when operating. This manual includes information about which parts are dangerous, what dangers you will face if you do not follow the instructions, and how you can avoid danger. In addition, Warning labels, which indicate danger, are stuck on such parts or portions. This manual employs “Warning” and “Caution” for stickers for safe use, indicating the danger according to its seriousness. The meanings are as follows.


 **Warning** This symbol denotes that improper handling poses a high risk of causing death or serious injury.

 **Caution** This symbol denotes that improper handling poses a risk of causing injury or property damage.

This manual employs three symbols to indicate attention and danger. The symbols have the following meanings:





	Calls for attention	This symbol means danger may be generated if the instructions are not followed. The graphics inside the symbol are the types of danger that are symbolically illustrated.	(Example)  (Electrical Shock!)
	Action to be avoided	This symbol means actions that are prohibited. The graphics inside or near the symbol are the types of prohibited actions that are symbolically illustrated.	(Example)  (Do Not Dismantle!)
	Compulsory action	This symbol means actions that must be performed. The graphics inside the symbol are the types of compulsory actions that are symbolically illustrated. To avoid danger, these actions are necessary.	(Example)  (Unplug!)

How Symbols Are Indicated in This Users Guide



Symbol denoting caution	Catch phrase indicating the seriousness	Description about the caution
 Caution	<p>Before booting up the system, confirm that all I/O installations and upgrading have already been completed.</p>	

Symbols Used in This Guide and Warning Labels and Their Descriptions

Calling attention

	Danger of smoke and fire		Danger of electrical shock
	Danger of explosion		Danger of chemical hazards

Action to be avoided

	General prohibition		Prohibition of dismantling and modification
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Compulsory action

	Unplugging or turning circuit breaker off		General actions to be performed
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How to Handle

Express Server configuration changes and removal or installation of optional build-in parts are only to be carried out by maintenance personnel. To make modifications, contact a maintenance service company.

Safety Precautions

Read, understand, and follow all the precautions described below in order to safely use the Express Server. Refer to Indications Regarding Safety Instructions as well.

General Precautions

Warnings

Do not reach into the server.

Only maintenance personnel should open the door. Do not dismantle, repair, or modify.
Do not reach into the server while maintenance personnel is opening the door. Doing so causes danger of electrical shock.



Do not insert any foreign materials into the server.

Do not insert foreign materials such as pieces of metal or wire through the ventilation opening. Doing so can cause fire or electrical shock.



Measures at failure

When the server is not running correctly, cut the power from the distribution panel or unplug the server. Then contact maintenance personnel.



Emergency measures

If danger arises and the server must be shut-down, press the emergency power-off (EPO) switch. If the EPO is used, data in the server may be destroyed. Accordingly, the guidelines for EPO operation should be determined in advance, and operators should familiarize themselves with the guidelines. For more information, please contact our sales representatives.



Contact address

To users: Please fill in the name of the sales agency and emergency contact address on the following lines.

Emergency contact address _____
Tel: _____
Fax: _____
Address: _____




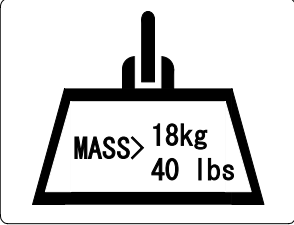
Disposing or recycling

Before disposing of or recycling the server, contact our sales representative.



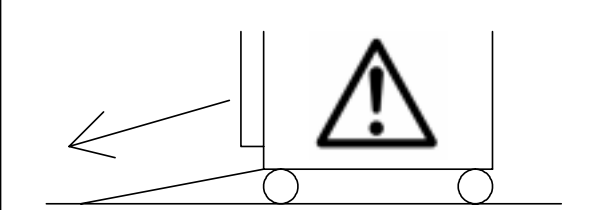




Warning Labels

The following labels are affixed on the product.
Follow the instructions of labels when using.

133-300656-GRP	MARKINGS
001	
031	<p>注※意：搭載品に関しては、インストラクションマニュアルを見ること。 WARNING: See operation Manual for a List of Equipment to be used with the rack. AVERTISSEMENT: Voyez au mode d'emploi fourni, pour un liste des materiels quels peuvent utiliser avec l'appareil.</p>
033	<p>注※意：分電盤の出力を確認後、ユニットを搭載すること。 WARNING: Confirm there is sufficient output voltage of power distribution from the outlet box before mounting units. AVERTISSEMENT: Avant la installation des materiels, confirmez que la tension de sortie au socle de raccordement au reseau est suffisante.</p>
103	
140	<p>注※意： CAUTION: For continued protection against risk of fire, replace only with same type and ratings of fuse. ATTENTION: Pour une protection continue contre l'incendie, remplacer les fusibles par ceux de meme type et de meme amperage.</p>
150	<p>注※意：資格者のみ保守すること。 HAZARD AREA: QUALIFIED SERVICE PERSONNEL ONLY DANGER: RESERVE SEULEMENT AU PERSONNEL AUTORISE</p>

133-300656-GRP	MARKINGS
163	<p>矢印を上に向けて取り付けること。</p> <p>Install with arrow pointing upwards.</p>  <p>Monter de maniere a orienter la fleche vers le haut.</p>
165	<p>注※意：アースされていない場合には機器を動作させないこと。 CAUTION:HIGH LEAKAGE CURRENT Grounding circuit continuity is vital for safe operation of machine NEVER OPERATE MACHINE WITH GROUNDING CONDUCTOR DISCONNECTED.(see installation instruction)</p> <p>ATTENTION:MACHINE a FORT COURANT de FUITE NE JAMAIS FAIRE FONCTIONNER AVEC FIL DE TERRE DECONNECT.(voir instruction d'installation)</p>
211	<p>注※意：この機器は、4系統から受電している。電源を切断すACは、INPUT1,2,3,4のCB1をそれぞれ切り離せ。 WARNING: This unit contains 4 power inputs. To remove power from the unit disconnect CB1 at INPUT 1, 2, 3 and 4. AVERTISSEMENT: Cette unite possède 4 sources d'alimentation. Pour isoler l'équipement de toute alimentation électrique, couper CB1 à l'entrée 1, 2, 3 et 4.</p>
217	<p> 注※意：入力電源線は銅線のみ接続のこと。 CAUTION: "Use Copper Conductors only" ATTENTION: N'utilisez que les conducteurs de cuivre</p>
243	<p>注※意：カバーを開ける前に入力電源(分電盤)切断のこと。 CAUTION: Disconnect input power before removing this cover. ATTENTION: Couper l'alimentation électrique avant de demonter ce capot.</p>

133-300656-GRP	MARKINGS
051	<div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center;">保守者の方へ</p> <p style="text-align: center;"> 警告 WARNING</p> <p>複数の装置を同時に引き出さないで下さい。 ラックの破損、転倒などの事故の原因となります。</p> <p> Do not pull out more than one component at a time as it may cause damage to the rack or allow the rack to tip over.</p> </div>
416	<div style="border: 1px solid black; padding: 5px;"> <p>注※意：</p> <p>CAUTION: PULL OUT STABILIZER WHEN MAINTAINING.</p> <p>ATTENTION: TIRER LE STABILISIEREN.</p> </div>
417	<div style="border: 1px solid black; padding: 5px;">  </div>
420	<div style="border: 1px solid black; padding: 5px;"> <p> 注 意： 装置運用中のファンボックス交換は、1分以内に行うこと。</p> <p>CAUTION: Fan Box must be replaced within 60 seconds.</p> <p style="text-align: right; font-size: small;">Y0T-502</p> <p style="text-align: right; font-size: small;">420</p> </div>
422	<div style="border: 1px solid black; padding: 5px;"> <p> 注 意： 保守の前に、レールがロックされていることを確認すること</p> <p>CAUTION: Confirm the side rails will be locked before maintain the unit.</p> <p style="text-align: right; font-size: small;">Y0T-502</p> <p style="text-align: right; font-size: small;">422</p> </div>

133-314121-GRP	MARKINGS	
051	<div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center;">保守者の方へ</p> <hr/> <p style="text-align: center;"> 警告 WARNING</p> <hr/> <div style="display: flex; align-items: flex-start;"> <div style="margin-right: 10px;"></div> <div> <p>複数の装置を同時に引き出さないで下さい。ラックの破損、転倒などの事故の原因となります。</p> <p>Do not pull out more than one component at a time as it may cause damage to the rack or allow the rack to tip over.</p> </div> </div> </div>	
052	<div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center;">保守者の方へ</p> <hr/> <p style="text-align: center;"> 警告 WARNING</p> <hr/> <p>装置を引き出ししたり、装置の積み下ろしを行う際は、必ずラック前面にあるスタビライザを引き出し確実に設置してから作業を行ってください。</p> <p>Always extract and install the stabilizers when pulling out ore unloading components from the rack. Operating on the rack without the stabilizers in place may cause damage to the rack or allow the rack to tip over.</p> </div>	
053	<div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center;">保守者の方へ</p> <hr/> <p style="text-align: center;"> 危険 DANGER</p> <hr/> <p>本ラックを床に耐震固定しないで設置する場合、必ずスタビライザを取り付けて設置してください。スタビライザを取り付けないと、ラックの転倒など事故の原因となります。</p> <p>設置前に、必ず保守説明書をお読み下</p> <p>Always install the stabilizers when not bolting to the floor for seismic restraint. Operating on the rack or allow the rack to tip over. Please read the Service Manual before installation.</p> </div>	
055	<div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center;"> 注意 CAUTION</p> <hr/> <p>指をドアに挟まないよう、注意してください。</p> <p>Take care not to pinch your finger in the door.</p> </div>	

243-304367-GRP	MARKINGS
001	<div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center;">保守者の方へ</p> <p style="text-align: center;"> 警告△WARNING</p> <p>本ラックを仮置き、設置する際は必ずレベルを降ろして下さい。 ラックの転倒など事故の原因となります。</p> <p>Always△install△the△leveler△when△setting the△rack. If△the△leveler△is△not△installed, it△may△cause△the△rack△to△tip△over.</p> </div>

243-304367-GRP	MARKINGS
001	<div style="border: 1px solid black; padding: 5px;"> <p> See△operation△manual△before connecting△the△supply. ☐ 200-100</p> <p>Lisez△le△manuel△d'utlisation avant△de△connecter△à△la△source. ☐ 200-100</p> <p> 電源接続前に取扱説明書をお読みください。</p> </div>
002	<div style="border: 1px solid black; padding: 5px;"> <p> Check△input△power△source. ☐ 200-100</p> <p>Vérifier△la△tension△de l'appareil. ☐ 200-100</p> <p>入力電圧を確認して下さい。</p> </div>

Tips for Health Care

Computer operation for a long time may affect your health. When using a computer, follow the tips below to avoid stress and maintain your health.

Correct posture

The correct posture of an operator for computer operation is sitting in a chair while maintaining an upright posture. The keyboard should be placed so that your hands are parallel with the floor. The screen should be slightly lower than your line of vision. The correct posture is one that does not place stress on your body, and where your muscles are not contracting excessively.

The incorrect posture is where you are hunched over or hitting the keyboard with your face close to the monitor. This posture may cause fatigue or eyesight problems.

Display angle adjustment

Most displays can be adjusted left/right and up/down. It is important to change the display angle to avoid glaring direct light from lighting and to make the contents on the screen clearer. Computer operation with incorrect posture without proper angle adjustment, results in operator fatigue starting sooner. Adjust the display angle before operating.

Adjusting screen brightness and contrast

It is possible for a display to change its brightness and contrast. The proper brightness and contrast of the screen vary depending on the person, age, and surrounding lightness. Adjust your screen according to your situation. Excessively light or dark screens may adversely affect your eyes.

Adjusting keyboard angle

Some keyboards have an angle adjustment design. Changing the keyboard angle to make you comfortable with keyboard operation is very effective in reducing stress on your shoulders, arms, and fingers. Cleaning peripheral devices and cleaners is also important from the viewpoint of functions and safety as well as aesthetics. Monitors typically collect dust. As a dirty monitor screen makes visibility lower, it is necessary to periodically clean the monitor.

Taking a break when tired

Taking a break and doing light exercise for relaxation is recommended.

Introduction

Thanks for purchasing NEC's Express Series server.

The Express5800/1080Xd is a high-performance server that supports multiprocessors including up to 8 "Itanium 2" processors, which are the second generation in the Intel® Itanium® processor family incorporating 64-bit architecture.

The Itanium 2 employs Explicitly Parallel Instruction Computing (EPIC) as innovative 64-bit architecture. The Itanium 2 is also suitable for high-end enterprise systems that feature high-speed operation and large-size memory capacity, and it realizes higher performance than the first generation Itanium processor.

We have integrated advanced LSI, high-performance, and high-reliability technology that inherit from Express Server Series, which had released ahead of all other companies.

Furthermore, the Express5800 Series offers high reliability though the RAS function included in its system and its bundled software.

To get the best of the Express Server, read this manual carefully and understand how to use before using

About This Manual




This User's Guide is intended to help the user install and use the Express server properly. When encountering any questions and troubles in daily use of the Express server, use this guide and also refer to safety precautions in it.

Keep this User's Guide near the Express server so that you can read it at any time you need.

This manual assumes users who have sufficient knowledge of how to use the operating system and I/O devices such as keyboard and mouse.

Symbols

This manual employs three symbols except for marks regarding safety described previously. Users should understand the following symbols to correctly operate the server.

	Points that must be observed in server operations and software handling.
	Points that must be confirmed in server operations and software handling
	Tips that is helpful and useful for operations.

Purchasing of This Manual

If you lose this manual, contact our nearest sales agency.

Organization of This Manual

This manual consists of two chapters. Each chapter covers the following contents.



Read Instructions for Use.

Before reading this manual, read Directions for Safe Use that is written on page iv. It includes important instructions to use the server safely and correctly.

Chapter 1 Hardware Features, names of blocks and parts, and basic operations for daily use.

Chapter 2 Software Step-by-step operating system installation

..... Also, describing how to use EXPRESSBUILDER CD-ROM and tools that come with the server.

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